

FIG. 1

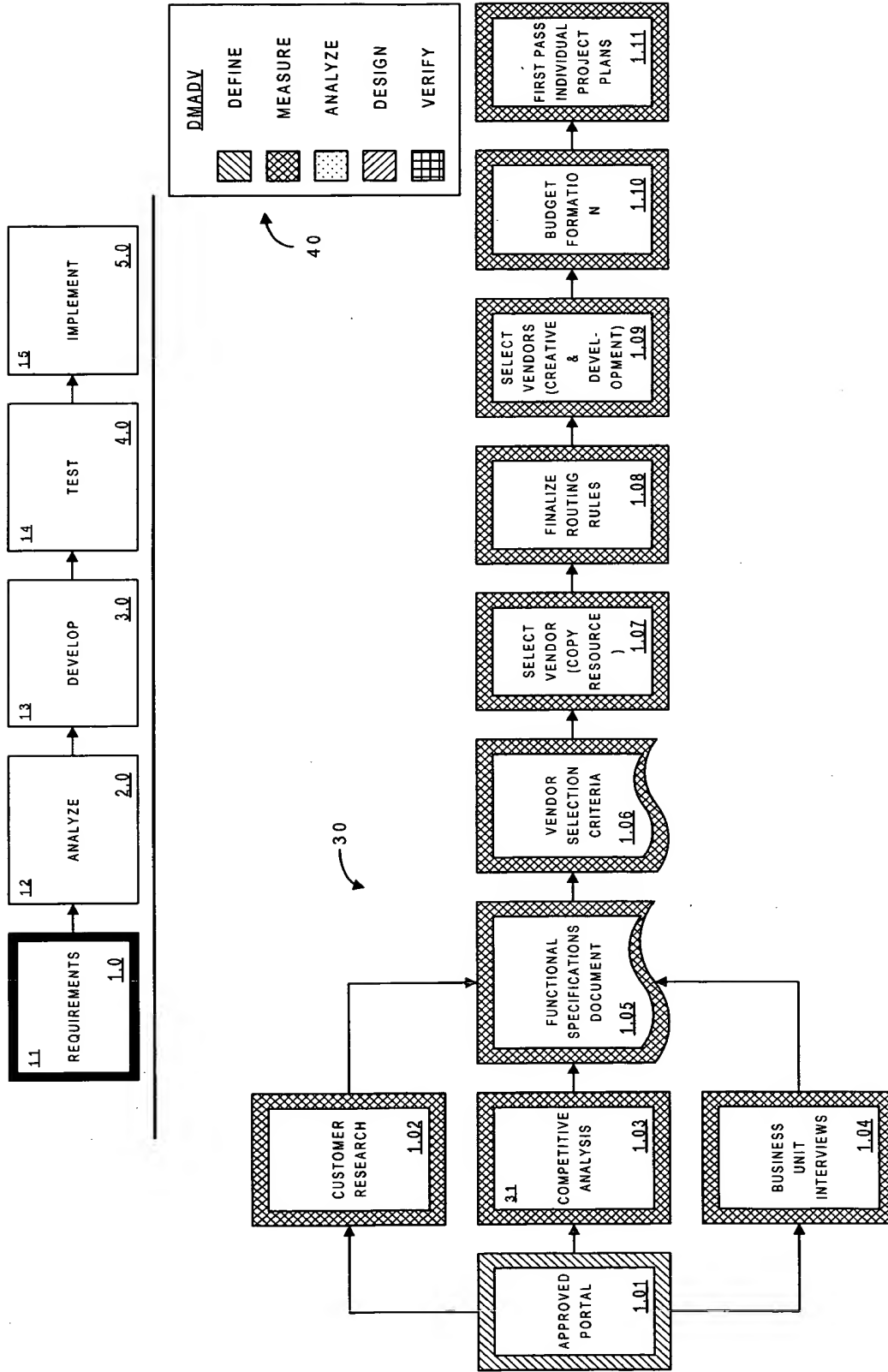
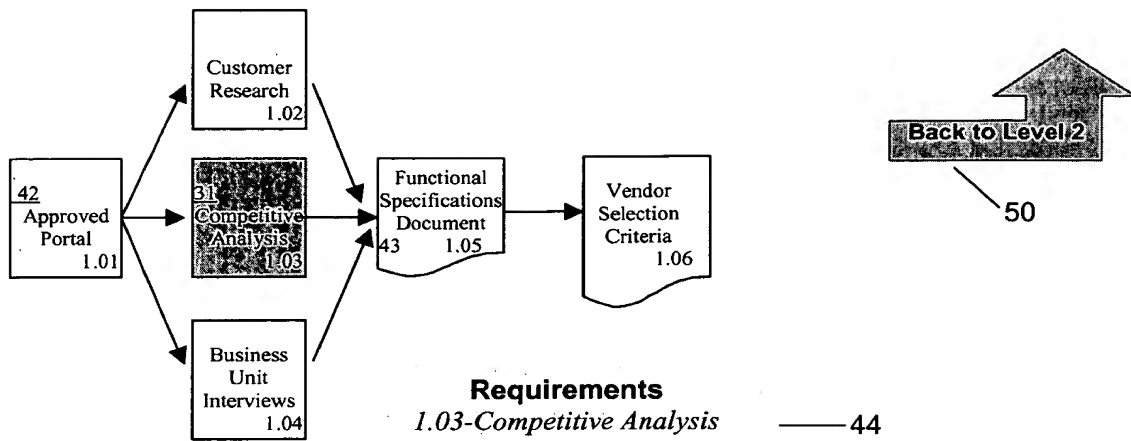


FIG. 2



Overview

In the Competitive Analysis phase you will be focusing on the competition that is currently present and the potential competition that could arise in your targeted market. Below is a list of where you should start your research.

□ Primary Research

- Outside Consultants
- Search Engine Query

□ Secondary Research

- Business Unit competitive profile
- Assess existing web sites
- Competitor's annual reports
- Trade publications
- Analysts reports

FIG. 3

FIG. 4

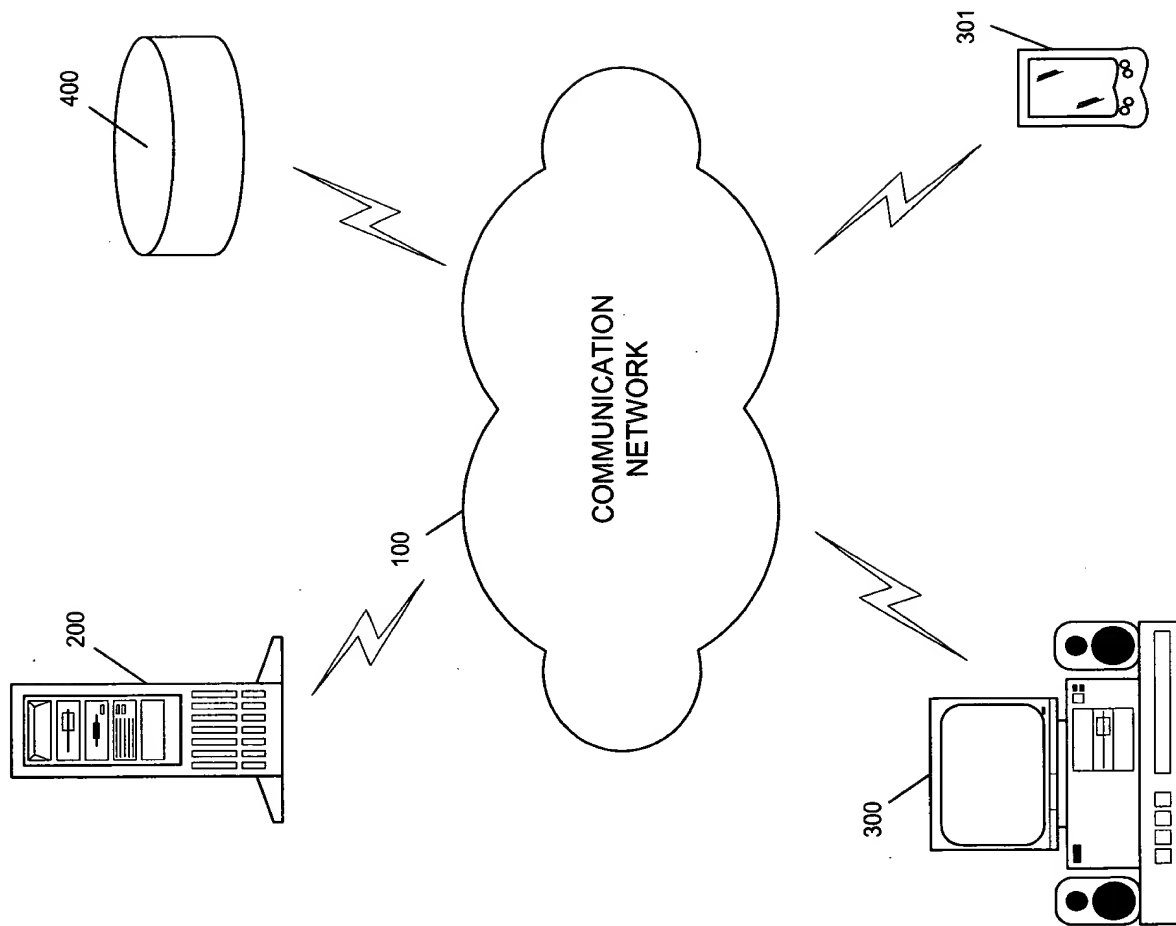


FIG. 4

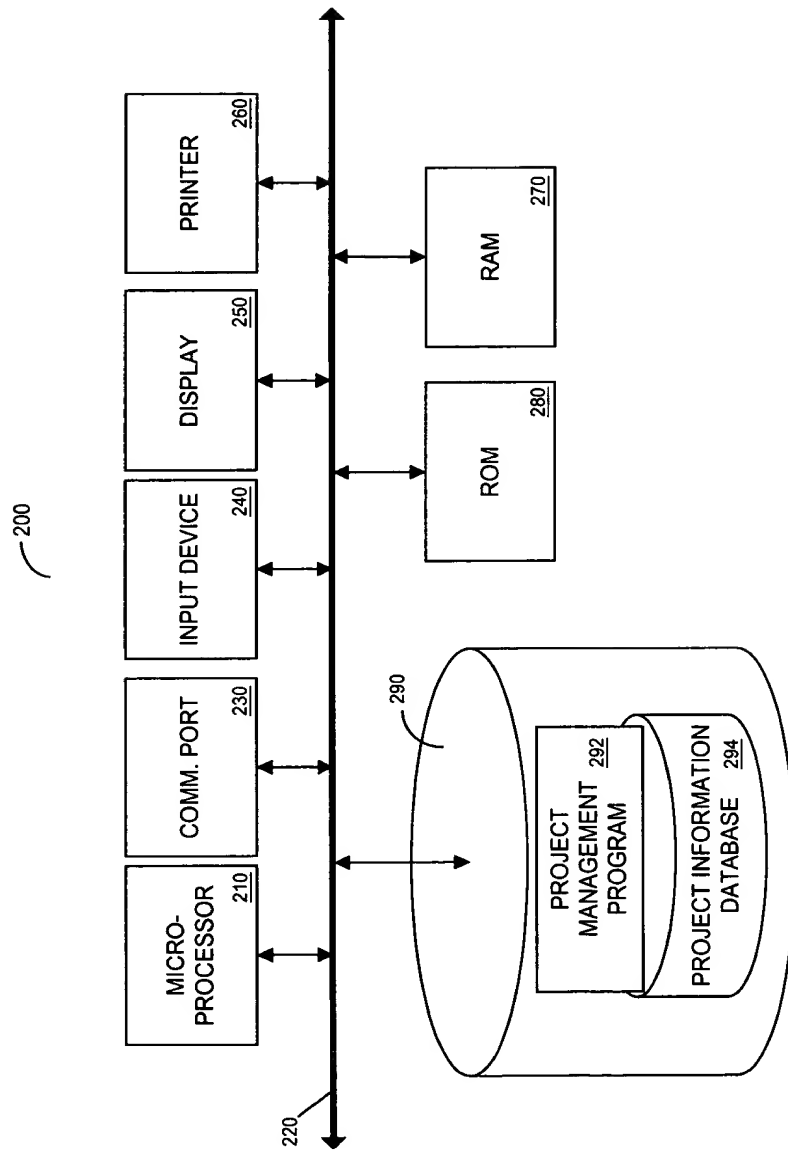


FIG. 5

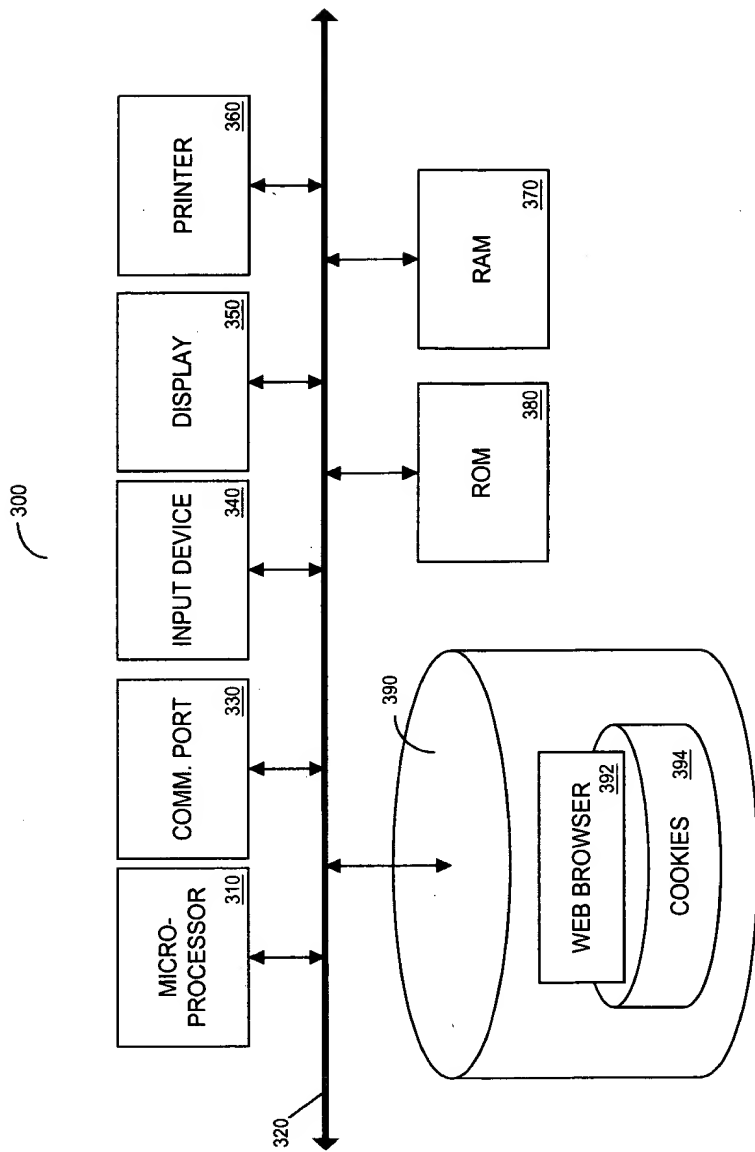
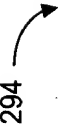


FIG. 6

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STEP ID 701	DESCRIPTION 702	LEVEL 703	PRECEDING STEP(S) 704	FOLLOWING STEP(S) 705	INSTRUCTIONS 706
1.0	REQUIREMENTS	ONE	NONE	2.0	NONE
1.01	APPROVED PORTAL	TWO	NONE	1.02, 1.03, 1.04	BRAINSTORM A LIST OF POSSIBLE URLs FOR YOUR SITE ...
1.02	CUSTOMER RESEARCH	TWO	1.01	1.05	PRIMARY RESEARCH - FOCUS GROUP -> VOC - SURVEYS -> VOC ...
1.03	COMPETITIVE ANALYSIS	TWO	1.01	1.05	PRIMARY RESEARCH - OUTSIDE CONSULTANTS ...
1.04	BUSINESS UNIT INTERVIEWS	TWO	1.01	1.05	TRY TO GET THE HIGHEST LEVEL OF MANAGEMENT ...
1.05	FUNCTIONAL SPECIFICATIONS DOCUMENT	TWO	1.02, 1.03, 1.04	1.06	YOU NEED TO SPECIFY: - FUNCTIONAL REQUIREMENTS ...

FIG. 7

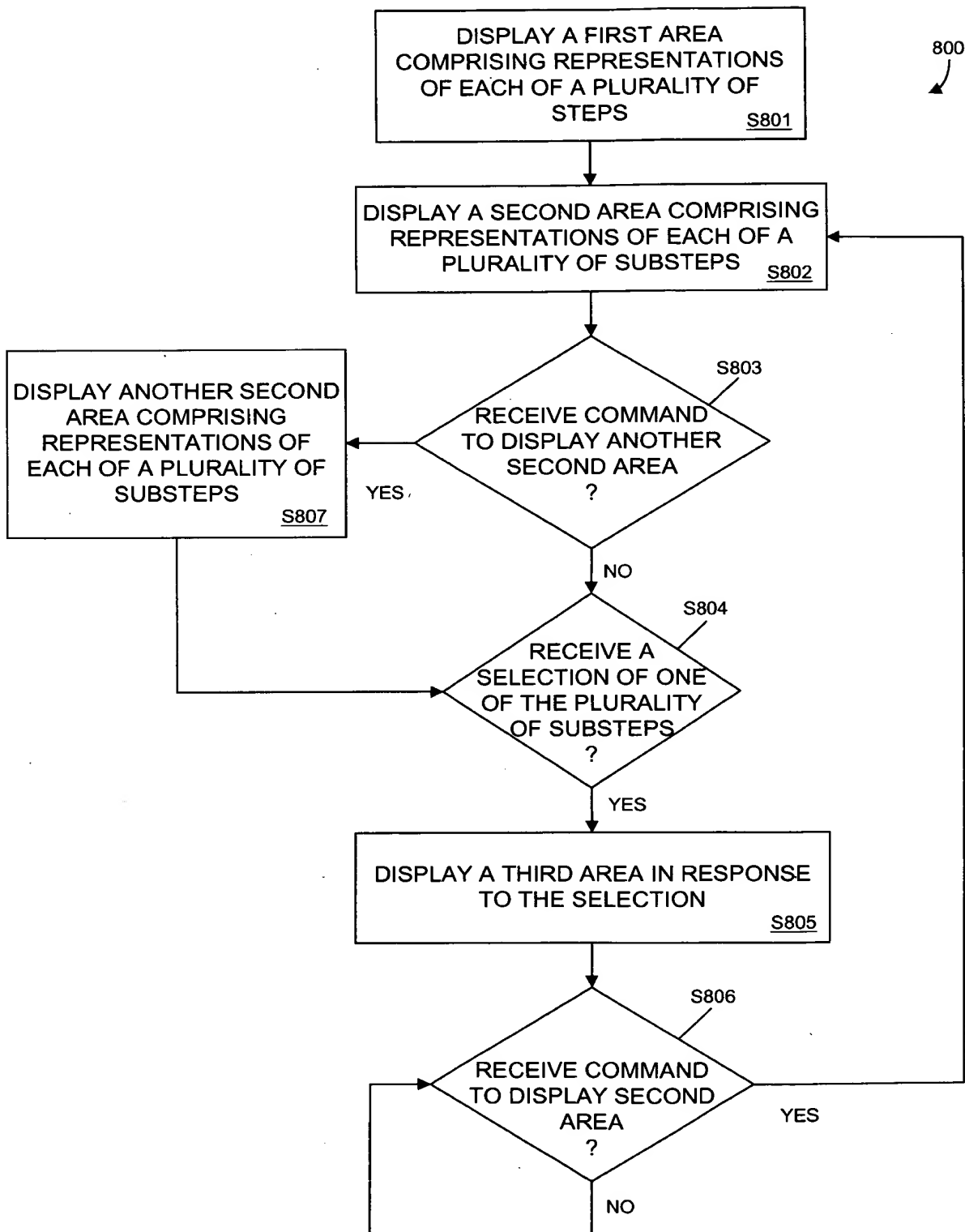


FIG. 8

FIG. 8

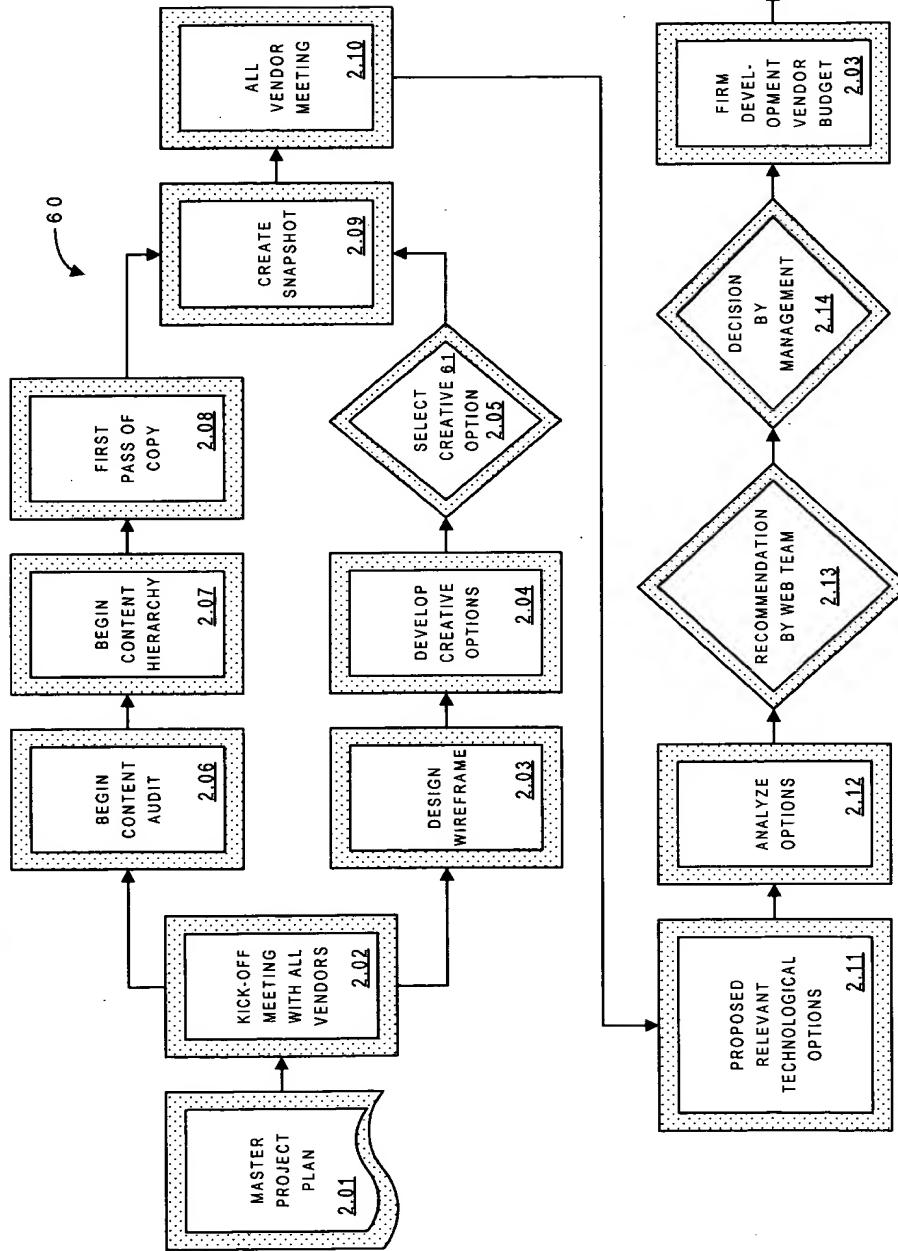
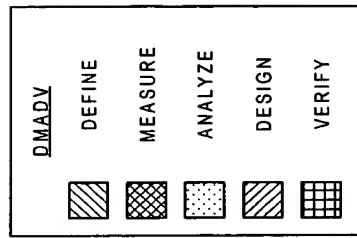
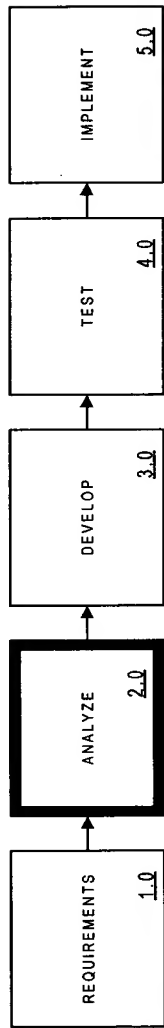
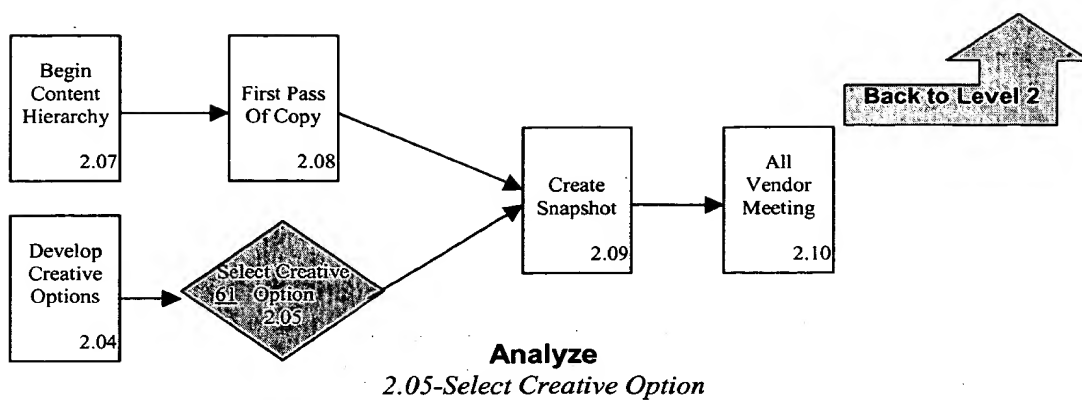


FIG. 9



Overview

Selecting the creative option will serve as the foundation of your site image from here on forward.

- When selecting the creative option, keep these elements in mind:
 - Does the design meet key criteria?
 - ✓ Will it cost significantly more (time/money) than other options?
 - ✓ Include the developer at this stage to be certain that what creative is suggesting is feasible and time/cost effective.
 - Does the design conflict with any team Standards?
 - Is the design par for what is currently on the web or better?
 - Is the option consistent in design?
- Usually the creative resource will present a few different creative comps for evaluation. Although the goal is to choose one, a hybrid of the proposed comps is usually constructed. As you select the creative option, you should note any modifications or changes that you would like to see in the final product. You should expect some of the suggested changes to be reflected in the snapshot designed in step 2.09 and the final changes to occur in step 3.09 during the refinement process.

FIG. 10

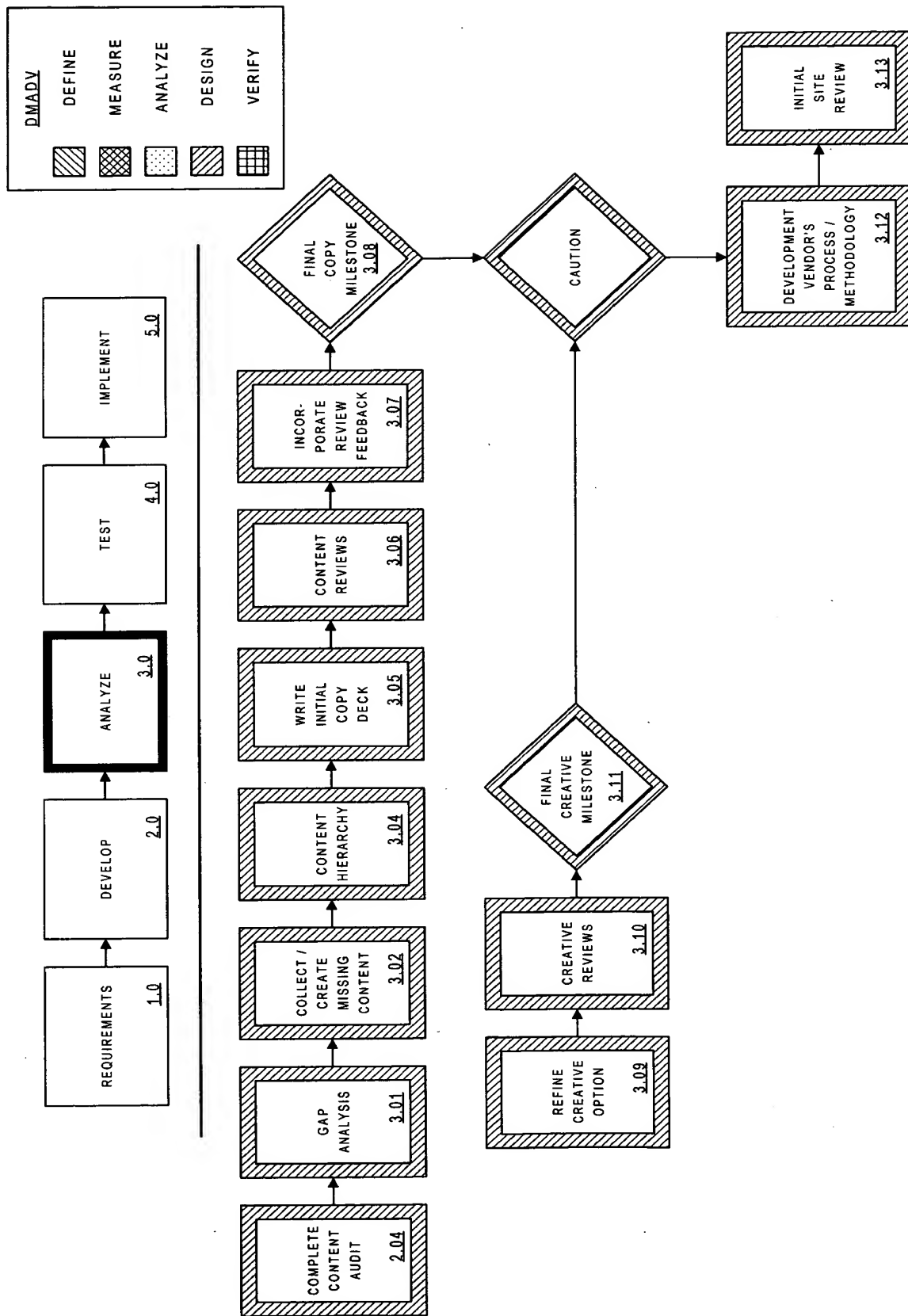


FIG. 11

FIG. 11

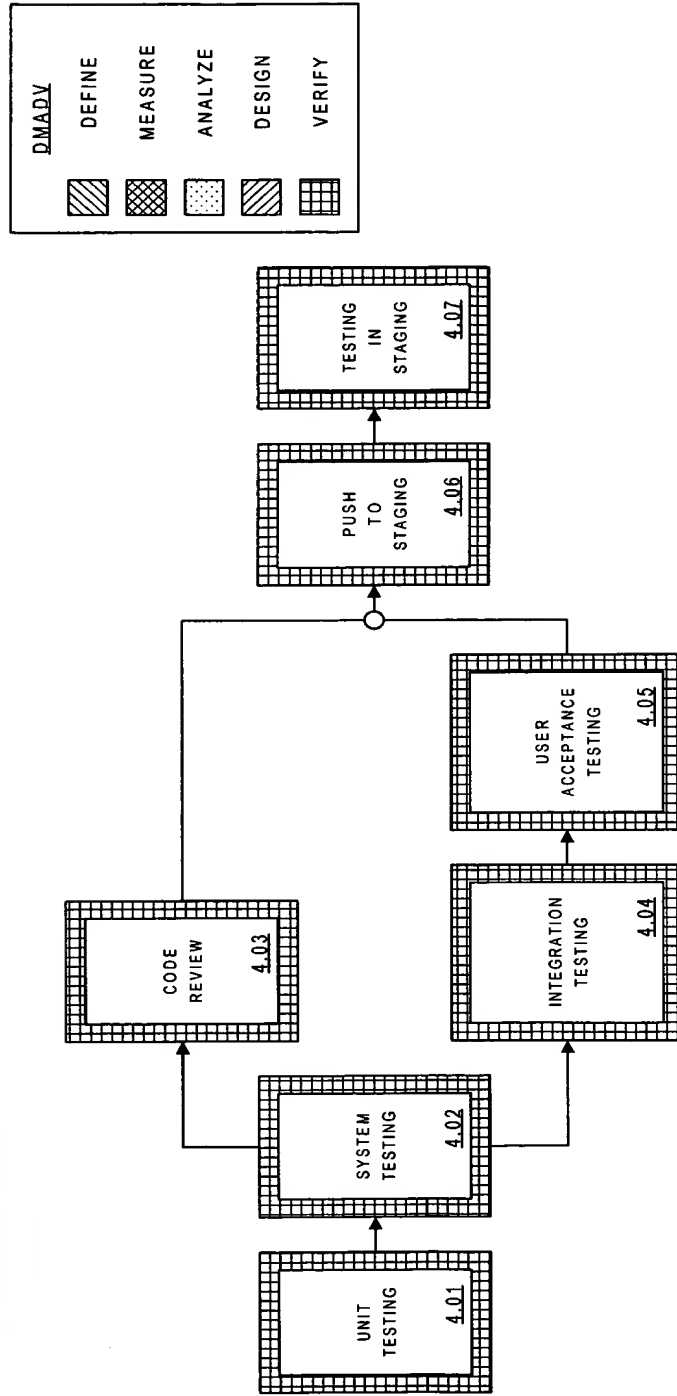
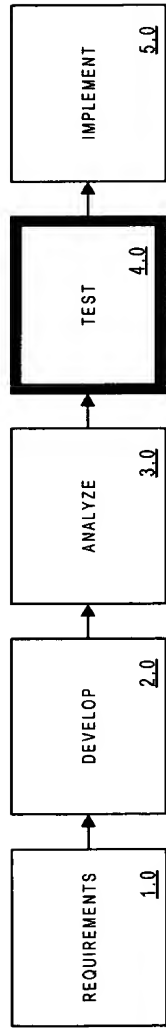


FIG. 12

FIG. 13

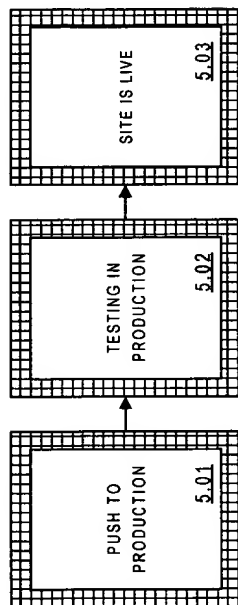
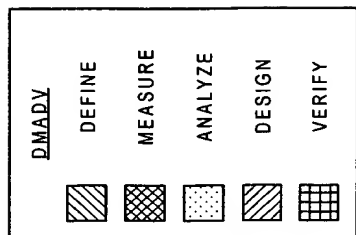
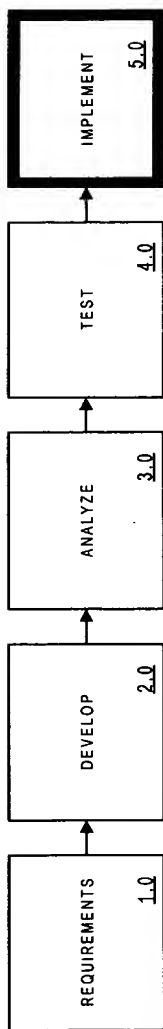
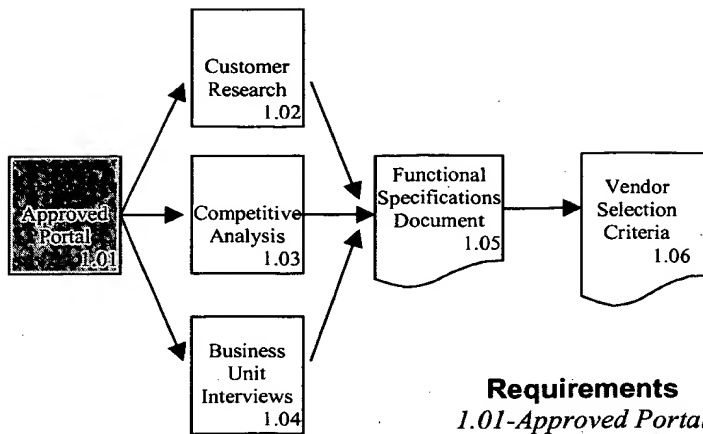


FIG. 13

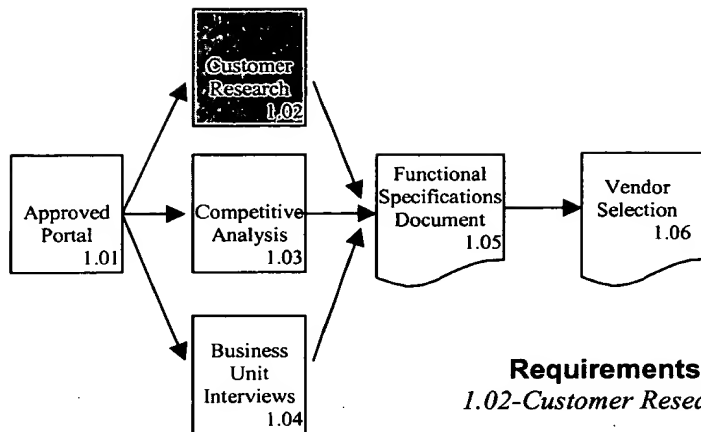


Overview

Once management has approved the portal or web site, the next action that needs to be taken is Domain Name Registration. What you need to do:

- Brainstorm a list of possible URLs for your site.
 - One of these URLs will act as your primary address and the others will serve as aliases for redirects (if you choose to register them).
 - You may want to use this list of URLs during the customer research phase to find which are more/less desired from a marketing standpoint.

FIG. 14



Requirements 1.02-Customer Research

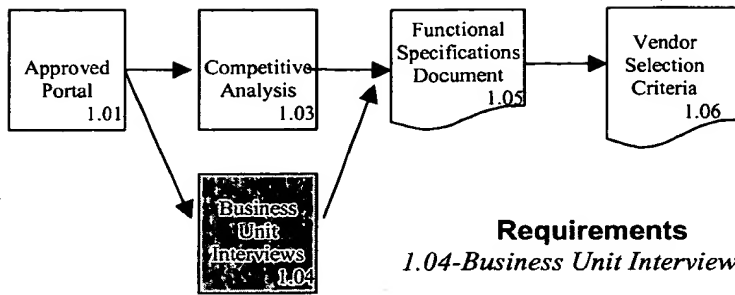
Overview

In the Customer Research phase you will be focusing on the various marketing aspects of your proposed web site and target audience. Below is a list of where you should start your research. *The VOC collected here will drive site functionality and content. Remember, it is crucial to collect true VOC. (see step 1.05)

- Primary Research
 - Focus Group → VOC
 - Surveys → VOC
 - Outside Consultant Research

- Secondary Research
 - Internal Research (BU's)
 - Industry Reports
 - GEC Intranet Links
 - ✓ S&P Reports
 - ✓ Stats USA
 - ✓ Forrester Reports

FIG. 15



Overview

Whether you are creating a cross-business portal or a web site for your business unit, initial management buy-in is crucial to the success of your site.

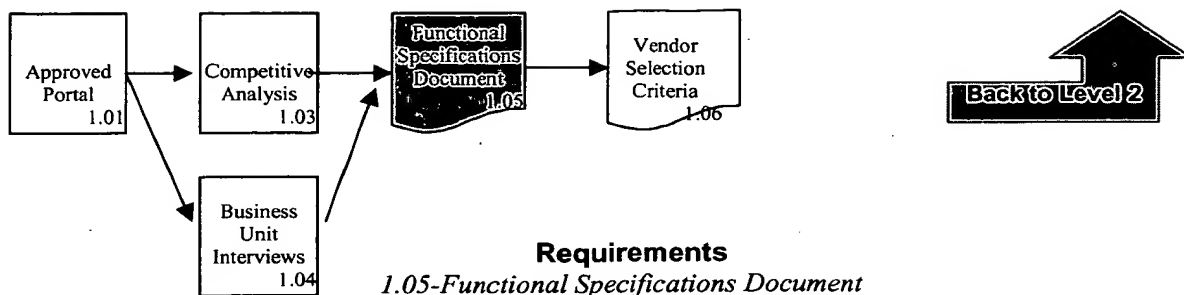
- Try to get the highest level of management involved
 - You want to keep the discussion at the highest possible level to obtain buy in and commitment from the business unit.
- Identify the dedicated Business Unit team (E-business, Marketing, Sales, and Underwriting).
 - Schedule meetings with this group and the management that elected them
- Be sure to completely understand what the Business Unit does.
 - Start with a play back of your understanding of the Business Unit instead of having them explain it to you from ground zero.
 - Understand Business Unit sales
 - Understand Business Unit Underwriting
 - Understand promotional schedules (for possible leveraging)
 - E-business initiatives (what online tools do they have, calculators, wizards, etc)
 - Where and how they play in their market segments and where they do not play.
 - Business Unit S2 and Operations plans
 - Business Unit Core Competencies

FIG. 16a

- Define Business Unit involvement and gain commitment
 - Budget contributions
 - Time
 - Resource allocation
 - Copy contributions and who will provide it
 - Technology
 - Prompt future lead-tracking need
- Get Business Unit expectations of the proposed web site

FIG. 16b

FIG. 16b



Overview

The Functional Specifications Document will provide the framework for what needs to go into the production of the site. It is extremely important to detail your functional specifications so that when it is time to select your vendors, you select vendors with core competencies that match your requirements.

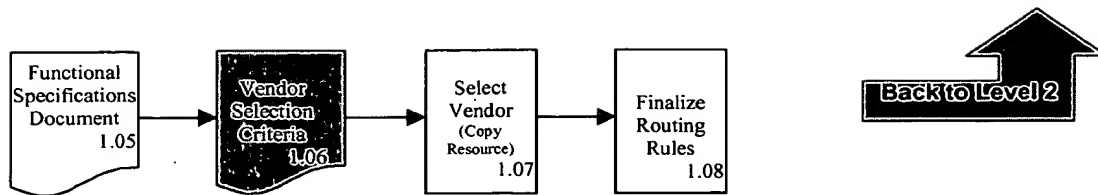
- You need to specify:
 - Functional Requirements – Major site functionality (e.g. wizards, video, animations, etc)
 - Data Requirements – Required data to be collected, processed, and/or stored.
 - Look and Feel Requirements – Specific design requirements (e.g. site must have consistent look and feel as an existing site) and navigation elements.
 - User Requirements – Groups of targeted users and utility of site for each.
 - Architecture Requirements – Any constraints that the developer must work with (e.g. must run on an existing architecture).
 - Operational Requirements – (e.g. operating systems, browsers, etc)
 - Content Requirements – Content to be provided by internal and third party resources.

FIG. 17a

*Specific to your Content Requirements, deciding what and how you are going to present your content is one of the single most important tasks in the Web Development Process. From a Six Sigma perspective, you want your VOC to drive what you are going to present on your web site, which will in turn dictate the kind of content that needs to be collected.

- At this point you need to make a strategic decision about how you are going to move forward. You need to determine your success factors and rate them against:
 - ✓ Using existing content and copy to drive the design and what you are going to offer on your web site, vs.
 - ✓ Using VOC to drive the CTQs to design what your customers want offered on the web site; then collect and/or create the content and copy to support the design.
 - ✓ *Sometimes VOC will indicate a need that is not justifiable in the context of the scope of the web initiative. Be sure to use prudent business judgement to determine the customer needs that you will address. Remember to focus on the critical few; use the 80/20 rule when determining how to prioritize CTQs.*

FIG. 17b



Requirements

1.06 – Vendor Selection Criteria

Overview

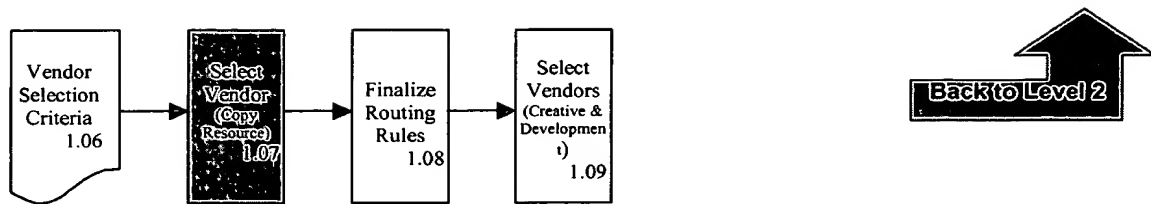
As mentioned before, it is strongly advised that you spend ample time on due diligence with respect to vendor selection. It is crucial that you let your requirements drive vendor selection. Experience has shown that selecting a technology vendor before knowing your requirements may lead to proprietary solutions that may not be in the best interests of GE.

- As you begin vendor selection you need to keep the following in mind:
 - Approved vendors.
 - References
 - ✓ From various Business Units
 - ✓ From other internal resources
- The site's functional requirements will drive the decision for what types of vendors you will need (creative, development, special web tools, etc). In addition, you should come up with a ranking system of requirements needed versus vendor capability.
 1. Determine the types and number of vendors you think you will need to build your site.
 - ✓ Bucket the types of functional areas and/or technologies needed.
 - ✓ Which vendor will be playing the "lead" role for the other vendors to follow? One suggestion is for the development vendor to hold the "lead" role since all of the components will eventual be rolled into development for production.
 2. Use QFD or The House of Quality (Pugh Matrix)
 - ✓ Give weights to requirements; score each vendor on the requirements to see which one has the core competencies to meet your need.

FIG. 18a

- *When choosing a vendor it is strongly recommended that you look into the vendor's methodology for project management, quality assurance, and production. We have found that a solid methodology creates the least amount of confusion, resulting in a better product on schedule..*

FIG. 18b



Requirements

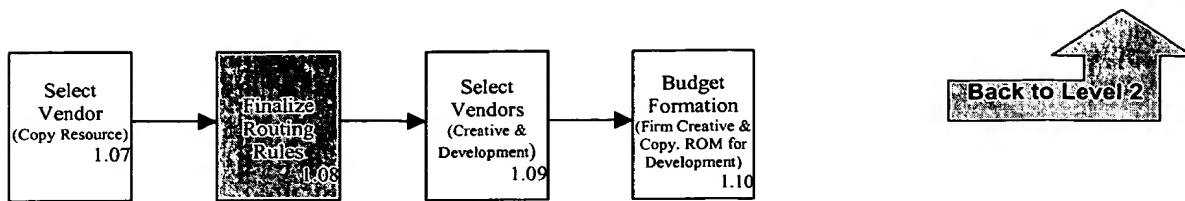
1.07-Select Vendor (Copy Resource)

Overview

A key take away in selecting your vendors is sufficient due diligence. Take the time up front to clearly establish your needs and rank the various vendors accordingly. Depending on your site, there are three main functional areas that need to be covered: creative, copy, and coding. This step is dealing with the selection of your copy resource.

- ❑ Make the decision whether to Make of Buy
 - Select Copy Resource
- ❑ Interview or meet specific head(s) of the copy team
- ❑ Get commitment of team member(s) for duration of assignment
- ❑ Priority of characteristics for your copy resource:
 1. Internal, web experienced writer
 2. Internal Resource
 3. Outside vendor with client-specific and industry knowledge
 4. Outside vendor with little or no client-specific experience, but has industry knowledge
- ❑ If you do decide to outsource copy development, you will still need to have internal resources available for input, questions, materials etc.

FIG. 19



Requirements

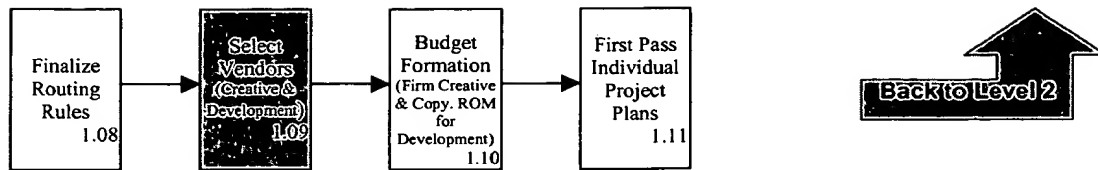
1.08-Finalize Routing Rules

Overview

Finalizing the routing rules will be most pertinent if you plan on having a wizard on your site that uses logic to drive a user to a specified answer, location, etc. It is crucial to obtain complete information and consensus on the logic being used. Once this logic is coded into the wizard it becomes much more challenging and expensive to make changes to it.

- There are many ways to go about gathering routing rules; below are some possible approaches. These approaches are based on finalizing routing rules with multiple Business Units, but they can be used in any situation where consensus is needed.
 1. Have all of the Business Units or parties involved participate in a workout
 2. Have Business Unit vs. Business Unit come to agreement on their own
 - ✓ Lay the ground rules down and let them figure out what belongs where.
 3. Meet with each Business Unit individually
 - ✓ This will only be possible in situations where the routing rules are “cut and dry”
- One suggestion is to have copy resource attend these meetings.
 - This will help the copy resource better understand the type of information and context in which it needs to be presented on the site.

FIG. 20



Requirements

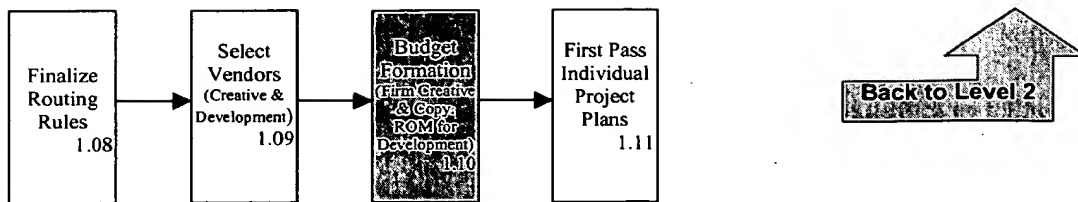
1.09-Select Vendors (Creative & Development)

Overview

Again, the key take away in selecting your vendors is sufficient due diligence. Take the time up front to clearly establish your needs and rank the various vendors accordingly. One suggestion is to take a Check and Balances approach. Having more than one vendor will help avoid proprietary solutions which may be best for the vendor but not for GE. Depending on your site there are three main functional areas that need to be covered: creative design, copy, and coding or production.

- ❑ Use Functional specifications to determine the resources needed (let your requirements drive the need)
- ❑ Make the decision to Make or Buy
 - Select Creative and Development Resources
- ❑ Interview or meet specific head(s) of associated team(s)
- ❑ Obtain commitment of team member(s) for the duration of the assignment
- ❑ *As mentioned in step **1.06**, the use of Global Development Centers is crucial to foster lower development costs.).
- ❑ Pay special attention to the vendors' development and production methodologies when selecting your vendors. Experience has shown that choosing a vendor with a strong methodology yields less confusion, misdirection, and rework.

FIG. 21

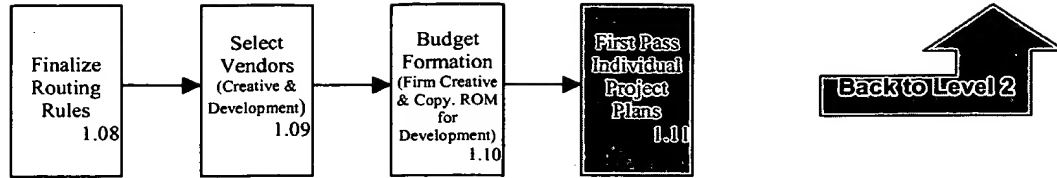


Requirements
1.10-Budget Formation

Overview

At this stage you should be able to derive a firm budget for the creative and copy resources, and a Rough Order of Magnitude budget for the development resource. The functional specifications should drive the creative and copy resource budgets. The reasoning behind the ROM budget is that the development resource is not going to know exactly what they are developing until after the creative and copy resources design a snapshot (step 2.09) of the finished product. Once the snapshot is complete, the development vendor will design the relevant technological options, and from this a firm budget will be created (step 2.15).

FIG. 22



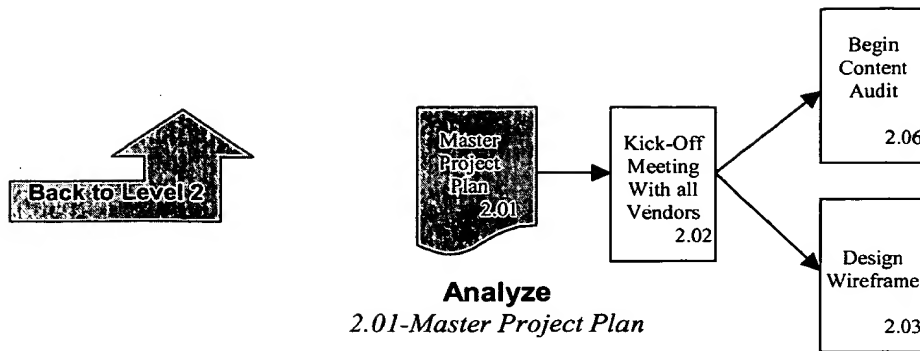
Requirements

1.11-First Pass Individual Project Schedules

Overview

At this stage each vendor should create their individual project plan for the piece of the process that they are responsible for. The individual project plans will then be rolled up into a master project plan in the next step.

FIG. 23

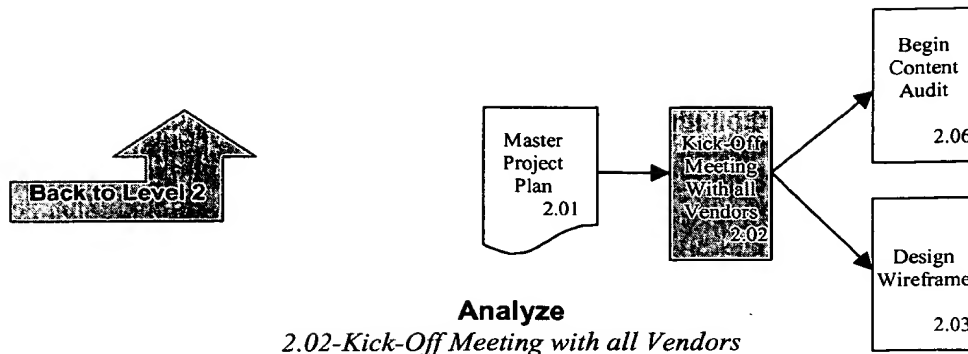


Overview

The first step in the Analyze phase is to merge the independent vendor project schedules into one master project plan. The creation of the master project plan should be lead by team with assistance from the lead vendor. If this path is taken, accountability is reduced to one vendor who is in turn responsible for updating and holding to the master schedule. When you approach the master project plan keep the following points in mind:

- Integrate individual vendor project plans
- Set integrated milestones and tollgates
- Portal leader and lead vendor should review for integrity
 - Are there any tasks missing in the master project plan that were specified in the Functional Specifications document
 - Does the project plan take into account the queuing of additional resources (i.e. code review)
- Our recommendation is to have one vendor accountable for delivering and maintaining the master project plan.

FIG. 24

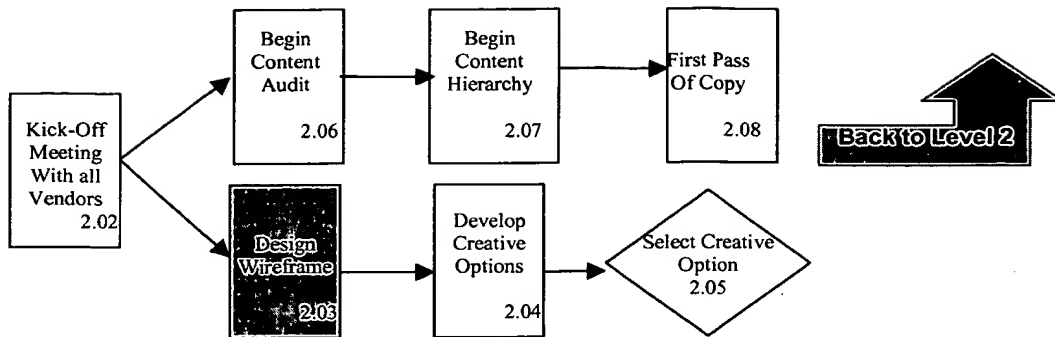


Overview

The kick-off meeting will prove to be a very important step in the overall development process; here you will lay down the ground rules for moving forward. Below are some points that should be addressed at this meeting.

- Set ground rules for project
 - Set reporting structure (e.g. all vendors report to lead vendor, lead vendor is the single point of contact to team)
 - ✓ Determine the Roles and Responsibilities of each vendor's team
 - ✓ Set a single point of contact for each vendor. This will reduce confusion in future handling of change requests, updates, etc.
 - Set an escalation process for all vendors if issues such as slippage or scope creep arise. Set a change order request process
 - Set a notification process if vendor resources are changed
 - *Set Weekly / Semiweekly conference calls and structure (i.e. use the master project plan and determined milestones as checklists during these calls). This will help identify any problems on a weekly basis as opposed to waiting and finding them out downstream.
 - ✓ Report % Complete vs. Schedule
 - ✓ Report Dollars Spent vs. Budget
- All vendors to exchange contact information
- Team and all vendors to sign-off on master project plan

FIG. 25



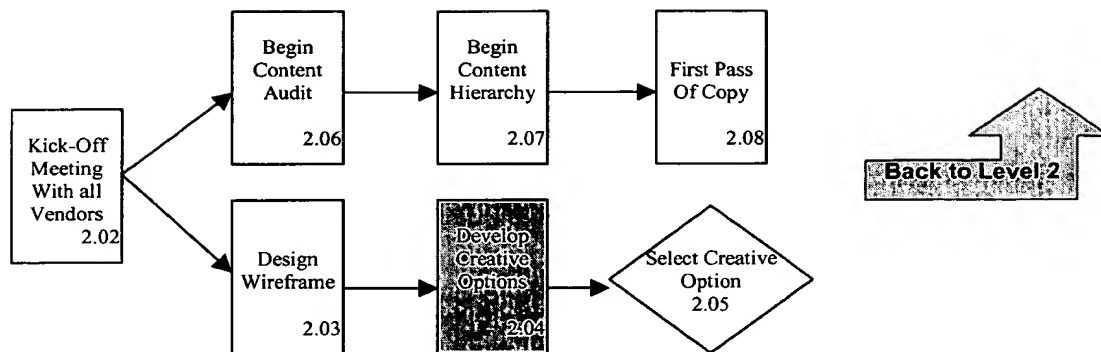
Analyze 2.03-Design Wireframe

Overview

Designing the wireframe is a crucial step in designing your site. The wireframe is basically a skeleton or framework of how you want your homepage and lower level pages presented.

- The wireframe will address:
 - Layout of the page elements
 - ✓ Header and footer placement
 - ✓ Logos or branding
 - ✓ Where copy will be placed
 - ✓ Placement of synchronized content
 - ✓ Where any online tools (wizards, calculators, etc.) will be placed
 - The navigational schema
 - ✓ Where the main navigation will be situated on all pages

FIG. 26



Analyze

2.04-Develop Creative Options

Overview

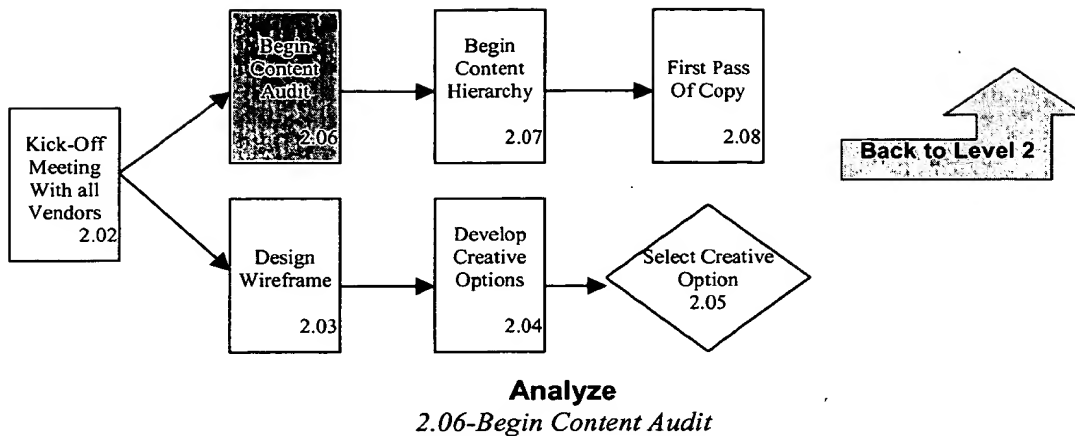
Developing the creative options is basically a function of wrapping various creative templates around the wireframe that has previously been created. Hence, the creative resource will need the wireframe to design the various options. The creative resource should design various creative site templates as per your direction.

- The creative options will most likely be presented as static GIF or JPEG images, which will then be used by the production resource when building the site.
- The creative resource will develop X number of creative options addressing:
 - Overall look and feel of the homepage and lower level pages
 - Applicable functional requirements previously specified (step1.07)
 - Online tools (wizards, calculators, etc.)
 - Navigation, Pop up windows, rollovers, etc.
 - Creative ideas on the presentation of any online tools (wizards, calculators, etc.) to be used

FIG. 27a

- You should analyze existing team web sites for ideas and best practices when brainstorming the possible creative options. In some cases there may be little if any effort spent here if you can find usable existing templates.
- It is recommended to have the creative resource first create the options for the homepage; then move to the lower level pages after approval.

FIG. 27b



Overview

The purpose of this step is to take a first pass at gathering the content which will be used to develop a representative "snapshot" (see step 2.09) of the final copy deck and creative design. Gathering content is one of the single most time consuming tasks. It is our recommendation that agreement on the type and depth of content being collected is made before a complete audit is conducted. This will allow you to attack issues up front to avoid plan slippage due to miscommunication of requirements.

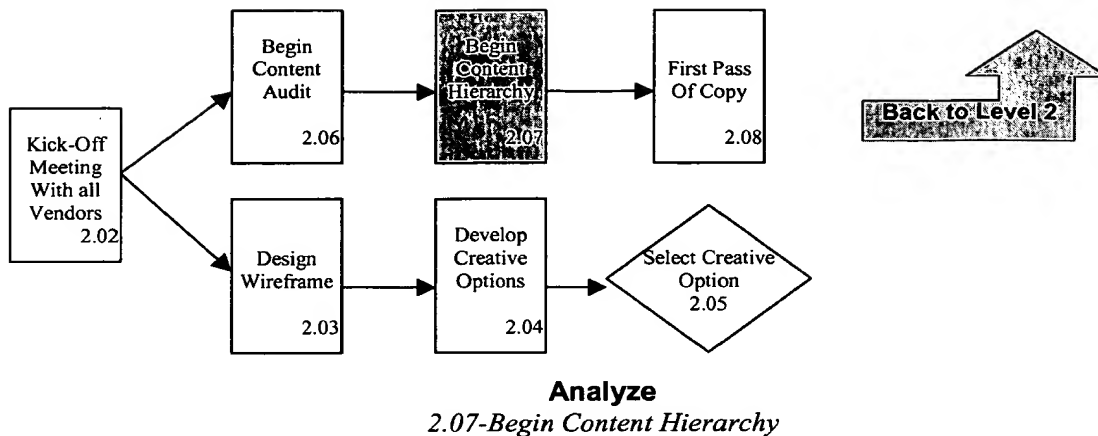
- Some suggestions where to start the content audit are:
 - Design a framework of how and what you are going to collect
 - Business Unit web site print-outs
 - In-process Business Unit offerings (i.e. new products or proposed web solutions, etc.)
 - Existing BU tools/wizards, calculators, etc.
 - Have Business Units bring print materials, marketing materials, etc. to the content workout.
 - Benchmark ideas from Competitive Analysis
- Be sure to clearly define who has the responsibility of the content audit.
 - One suggestion is that the web site leader or an internal company

FIG. 28a

resource takes the lead for the content audit. Here you can leverage company knowledge, networking, and a better understanding of the business. Experience has shown that having a third party lead the content audit may slow the process since they do not have the same internal resources that your team has.

FIG. 28b

FIG. 28b



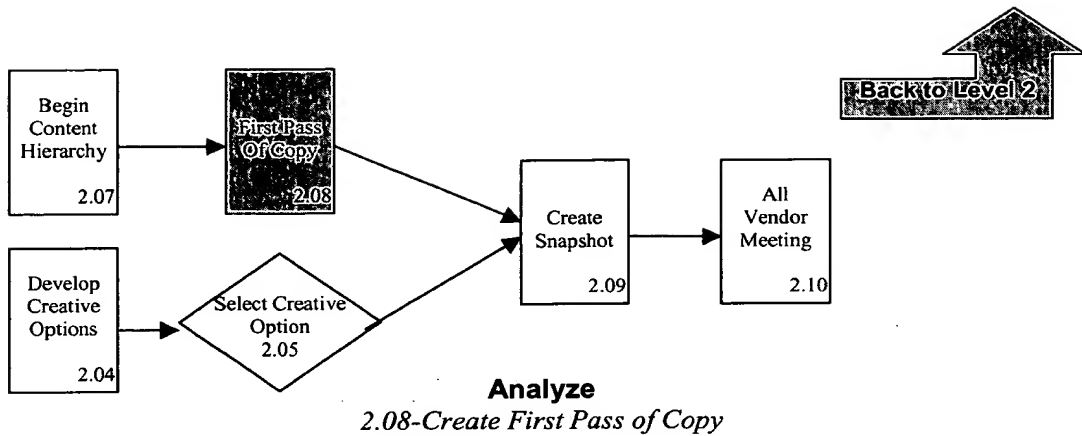
Overview

Now that a first pass of content has been collected, it is time to start thinking about how the content will take shape in the web site. Since you will only have a small amount of content collected at this point, you will not be able to complete the content hierarchy. However, this will give you a head start when you complete the content hierarchy in step 3.04. Again, the main purpose of this step is to prepare for the snapshot to be created in 2.09

- Web leader, copy resource and creative resource to give input about where the copy will be presented in the wireframe design.
 - Determine where the copy is going to be placed on the home and lower level pages. (what buckets of copy do you have to present?)
 - Look for existing templates for content layout structures
 - Determine a click strategy (see corporate guidelines for any requirements)

- Refer to step **3.04** for more information about the content hierarchy.

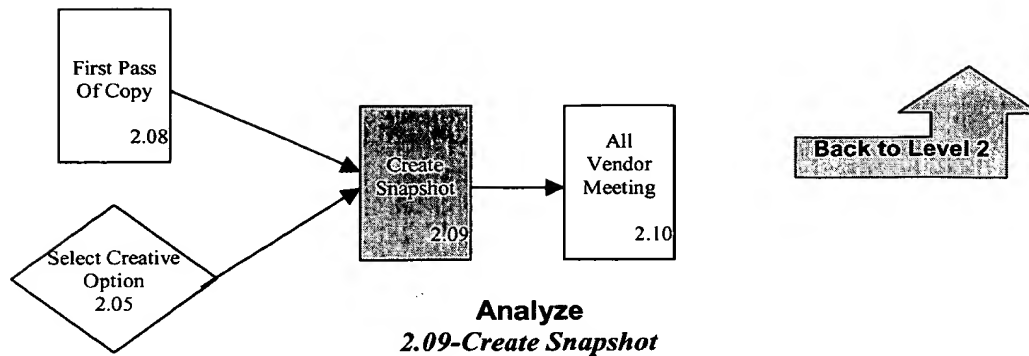
FIG. 29



Overview

This step is intended to produce enough copy for the snapshot that will be created in the next step. The team needs to decide what type of copy should be created here (e.g. copy for the Homepage and X number of lower level pages). The copy resource should not attempt to create the entire copy deck at this point; the copy deck will be created once all of the content has been collected and the content hierarchy is complete.

FIG. 30

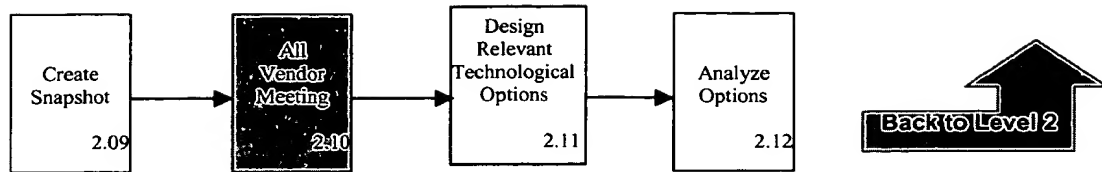


Overview

This step will allow the copy and creative resources to put actual content into the framework developed, so that a "snapshot" of the pages can be viewed before it is driven to production. Past experience has shown that this may be a good idea, attacking these components up front as opposed to dealing with unacceptable copy and design issues later in the game.

- In order to create the snapshot you must first have the initial content audit and wireframe complete, the agreed copy created, and have selected a creative option.
- The snapshot will basically be a static image combining content and copy with the creative option chosen so that you can get an idea of what the final product will look like. Having the creative and copy resources develop this snapshot early in the process will allow you circumvent false expectations in the future.
 - You should request a snapshot of both the home page and one lower level page.
- This step may be an iterative step if the web team is not satisfied with the snapshot created. If this is the case, you should return to step **2.03** and work forward to iron out the discrepancies.

FIG. 31



Analyze

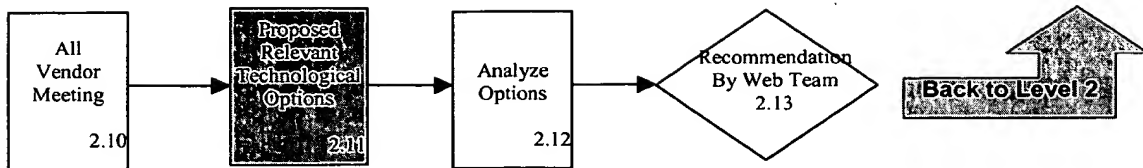
2.10-All Vendor Meeting

Overview

The purpose of the all vendor meeting is to get everyone on the same page as you begin to define your technological options for development and move into production. The goal is to have all parties leave the meeting with a full understanding of what they are responsible for and the attainability. The site owner should lead this meeting; the lead contractor should have major input.

- There are several points that should be covered during this meeting:
 - Ensure that everyone is at the same point of understanding with respect to each vendor's responsibility and how their work ties into the whole picture.
 - Present the snapshot images of the homepage and lower level page(s) that have been created.
 - ✓ You will want to ask for constructive criticism at this point since the next step is for the development vendor to take this snapshot and design the relevant technological options for it. Note that when the creative and copy resources move to production they will refine/complete the selected creative option and framework.
 - ✓ Are there any issues with respect to the reality of the snapshot? (i.e. are there enormous costs or limiting technologies involved)
 - This meeting should also serve as a place to flag any major problems or issues dealing with vendor to vendor relationships and/or vendor to company relationships.

FIG. 32



Analyze

2.11-Development Vendor to Propose Relevant Technological Options

Overview

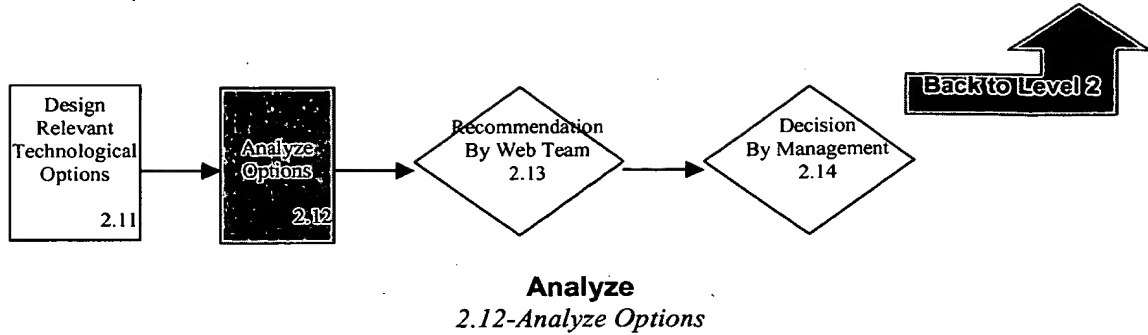
At this stage in the game you know what you are going to offer on the site and the online tools that you want to use, now it is a question of what technology is going to make it happen. It is very important that the developer details the various technological solutions that will suit your need. For example, you could code your entire site in HTML or XML. What are the pros/cons of each option? Which serves your need best?

- Not only should the developer offer various technological solutions, they should compare and contrast the various offerings.
 - Pros and cons for each option presented with respect to:
 - ✓ Platform options and their scalability – ability to interface
 - ✓ How they stack up to today's technology standards
 - How soon will they be outdated
 - ✓ Do they support company's lowest common denominator standard
 - (e.g. what browser version do you have to cater to)
 - ✓ What are the business justifications to use one technology over another.
 - ✓ How flexible are they to maintain
 - ✓ Does the developer have the skill set, or are they going to subcontract it out.
 - How do GDCs fit into the picture? And do they have the necessary skill sets?

FIG. 33a

- ✓ Compatibility with your current components
 - Does company already have licenses with the proposed technologies?
 - Internet metrics tracking software
 - Hardware structure
- What are the short and long term implications?
- What is the timeline and costs associated with each option presented?

FIG. 33b

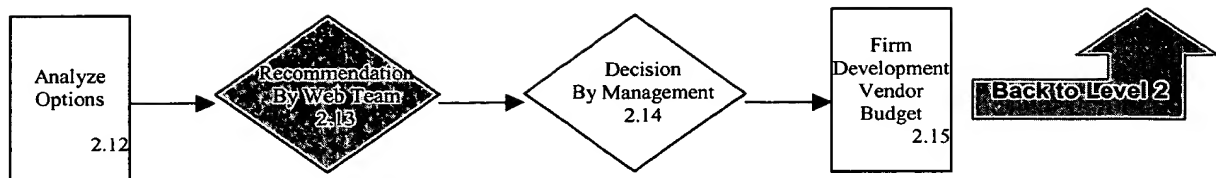


Overview

The next logical step is to analyze the technology options that the production vendor has presented to you so that you can make an informed decision as to which the optimal choice is:

- Similar to the QFD or House of Quality suggested in the Vendor Selection Criteria in step **1.06**, you should rate the relative options against your needs and the site requirements.
 - Give weights to your requirements and score each option to find which one satisfies your needs profitably.
 - ✓ Let the main drivers be the decision of Cost vs. Time vs. Functionality
 - ✓ Refer to step **2.11** for ideas of what you should be scoring

FIG. 34



Analyze

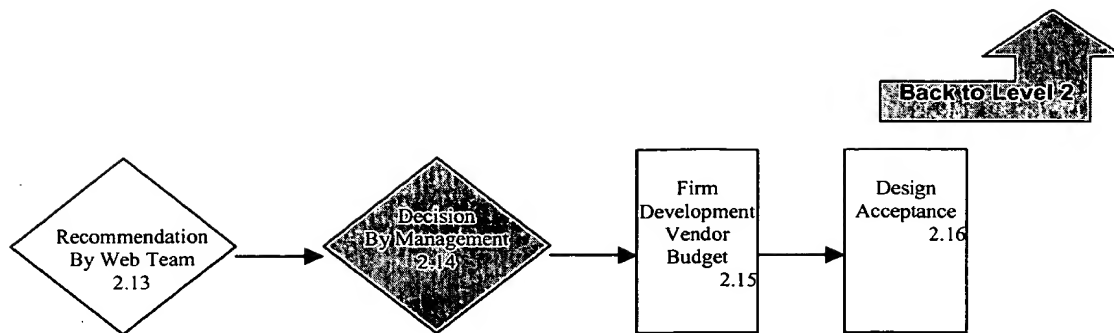
2.13 - Recommendation by Web Team

Overview

Now that you have analyzed the options you need to package your recommendation to "sell" it to management.

- When presenting your recommendation to management you need to bring the details up a level and focus on:
 - The creative options presented
 - Overall site requirements versus what the option offers
 - One time sunk costs
 - Will current hardware systems/structure support the option?
 - Leveragability of the option in the future (i.e. other sites to be launched)
 - Scalability
 - Confidence in the vendors chosen

FIG. 35

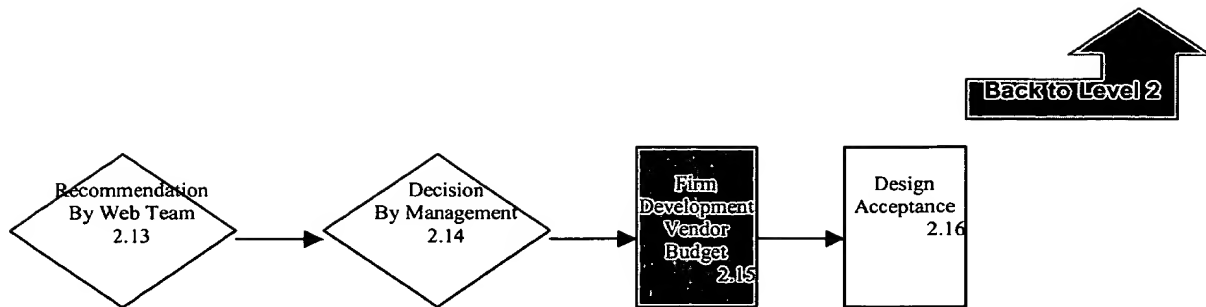


Analyze
2.14-Decision by Management

Overview

This step is relatively self-explanatory. After your recommendation to management, a decision on how to move forward will be made.

FIG. 36



Analyze

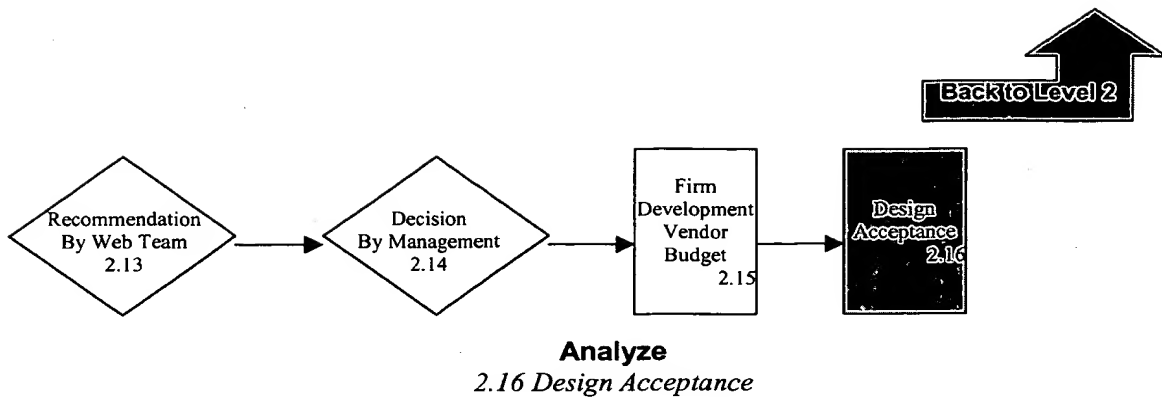
2.15-Firm Development Vendor Budget

Overview

As you may recall, in step 1.10 the development vendor derived a Rough Order of Magnitude (ROM) budget for the development costs. At this stage, you now know what the inputs are from the creative and copy resources, and the technological option that the development vendor will be using. You should now be able to firm up the ROM budget previously created to reflect your costs moving forward.

- The first step in firming the development cost is to revisit the Master Project Plan (2.01). Since cost is a function of time, unless a fixed price contract is used, you may need to refine the project plan to reflect any changes that need to be made.
 - Has there been any significant development changes since the master project plan was created?
- You also need to take into consideration the use of GDCs in the development environment. Will any major changes to the project plan effect queuing of GDCs or their involvement?

FIG. 37

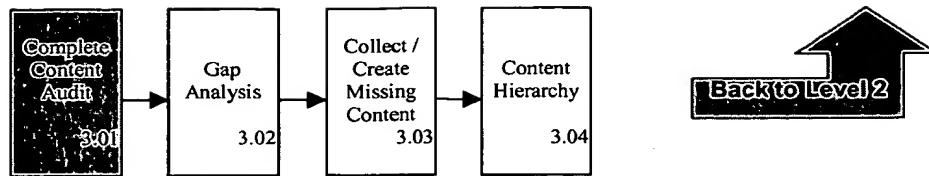


Overview

Now that the snapshot has been created and the technological option has been chosen, the company web team should give their acceptance to move forward, always keeping in mind Cost vs. Time vs. Functionality.

- By the end of this meeting, company and all vendors should sign off on all of the requirements up through the Analyze phase and go over what is expected from each vendor during the Development, Testing, and Implementation phases.

FIG. 38



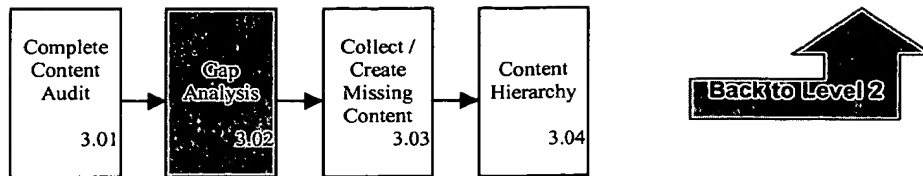
Develop
3.01-Complete Content Audit

Overview

Now that everyone is in agreement of the type of content to be collected you can drive the content audit to completion. Be proactive during this phase; Experience has shown that the content audit, if done inefficiently can become the single largest bottleneck in the process. It is advised that the site leader drives this step due to the advantages of having an internal resource collecting business material. Keep in mind that that the content audit should be directed by the VOC collected.

- Depending on the type of site you are developing, the level of effort needed to find the necessary content will vary
- Some suggestions for collecting content are:
 - Continue using the framework for collecting the content designed in step **2.06**.
 - Business Unit web site print-outs
 - In-process Business Unit offerings (i.e. new products or proposed web solutions, etc.)
 - Existing BU tools/wizards, calculators, etc.
 - Have Business Units bring print materials, marketing materials, etc. to the content workout.
 - Benchmark ideas from Competitive Analysis

FIG. 39



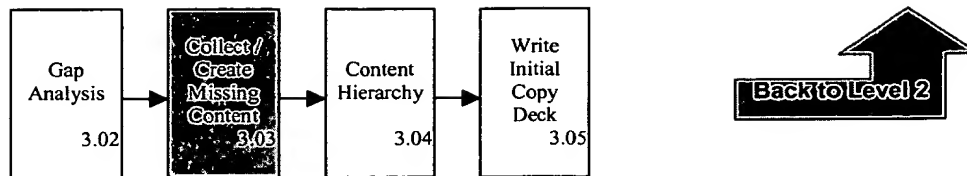
Develop 3.02-Gap Analysis

Overview

The gap analysis is basically a function of analyzing the content framework that you have designed to find what you have collected and what you are missing.

- With respect to your framework what else do you need to collect?
 - Are there any CTQs that have not yet been covered?
 - Is the content you have collected detailed enough?
 - Have you satisfied any alliance possibilities / Content partners
 - ✓ News feeds
 - ✓ Articles
 - ✓ Interactive tools

FIG. 40



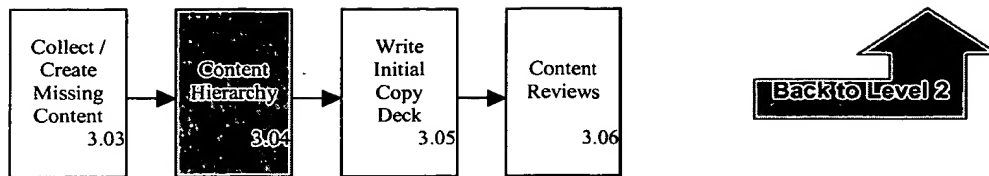
Develop
3.03-Collect / Create Missing Content

Overview

Now that you know what content you are missing, you need to collect it and/or create it depending on what you are missing.

- Refer to steps 2.06, 3.01, and 3.02

FIG. 41



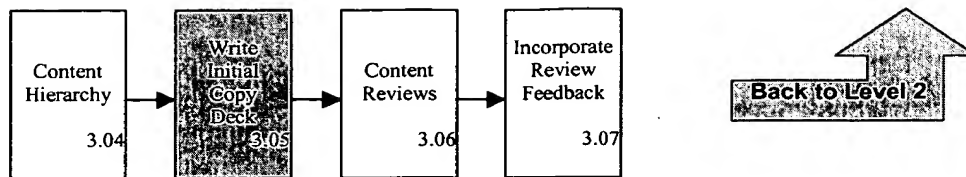
Develop
3.04-Content Hierarchy

Overview

Now that you have collected all of the content you need to put some structure around it. The Content Hierarchy will provide the logical positioning of the content throughout the site.

- This step will basically define what content goes where (i.e. homepage, lower level pages, pop-up windows, etc)

FIG. 42



Develop

3.05-Write Initial Copy Deck

Overview

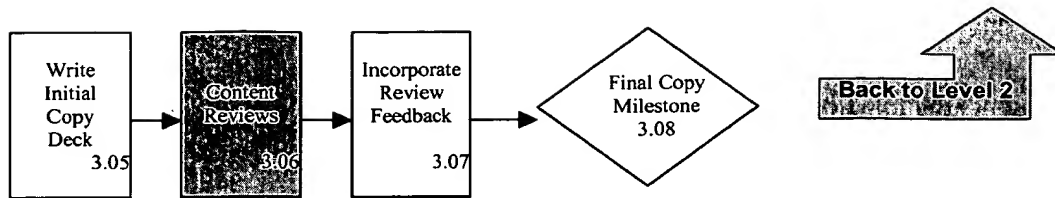
Developing the Content Hierarchy and site framework before writing the initial copy deck will increase the focus of converting content to copy, thus limiting time spent on layout and positioning.

- As your copy resource begins writing the initial copy deck, the team needs to further clarify the story (or flow) for the site. Starting with the Homepage, each lower level page should support or give a more in-depth look of the previous page or overall mission of the site. Each page should have a specific purpose or intent for the user.
 - *At this point you should start to think about Search Engine Optimization (step3.12). SEO deals with optimizing each page of your site so that users can find it when searching online. Since SEO consists of formulating titles, keywords and descriptions of each page, it would be best to start this task during the creation of the copy deck.*

FIG. 43a

- Here are some things that the copy resource will need to write the initial copy deck:
 - All of the content previously collected
 - The Content Hierarchy (3.04)
 - The wireframe (2.03) built for the Homepage and lower lever pages. (the snapshot created in step 2.08)
 - ✓ Since the copy resource won't be building the copy deck in HTML, one suggestion is to recreate the template designed in 2.08 into a word processor format. Writing the copy deck in this type of template will allow both the copy and the look and feel to be evaluated in an easily edited format. Putting the copy in this type of design will further reduce false expectation issues in the future.

FIG. 43b



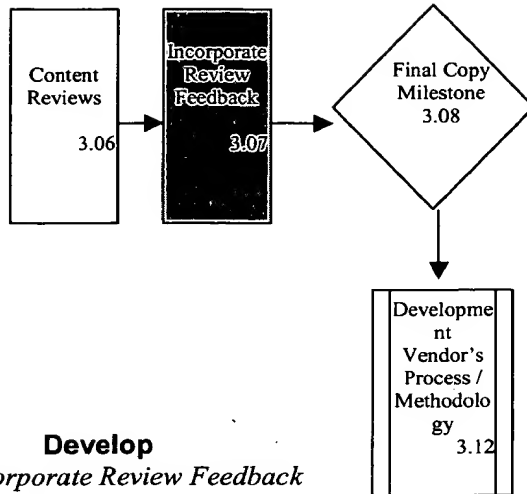
Develop
3.06-Content Reviews

Overview

Now that the initial copy deck has been written, there are a series of reviews that must take place to ensure completeness and integrity of the copy.

- The following parties have a vested interest in reviewing the copy deck:
 - Portal leaders to review for content satisfaction and integrity
 - Legal to review for integrity. This is a great time to get legal input instead of waiting until site launch. This will potentially divert any bottlenecks due to a review waiting period.
 - Business Unit to review content
 - ✓ Send the copy deck to the vested BU parties for review. Set a deadline for when you are willing to take changes.
 - ✓ The goal of the Business Unit approval is to make sure that everyone is satisfied with the content that is being presented. It is recommended that all suggestions/changes be made to the copy deck at this stage; it will cost the team much more time and money to make content changes in the future compared to making them now.
 - ✓ This will be the last major Business Unit review of the content. Be sure to approach this step with the end goal of content completeness and integrity in mind.

FIG. 44



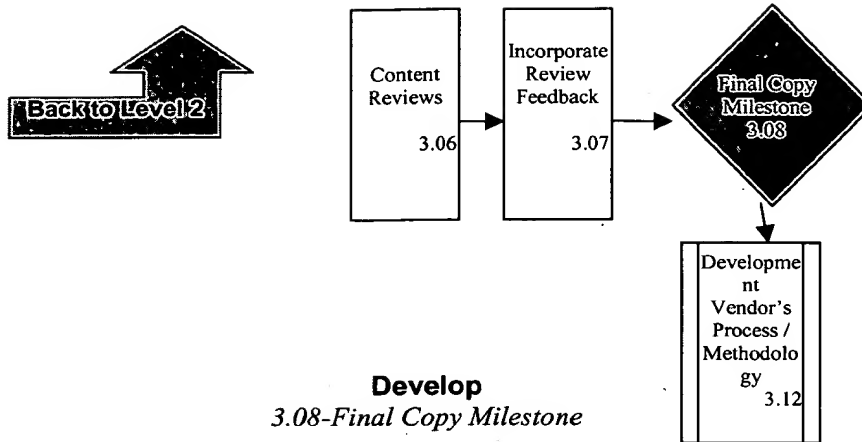
Develop

3.07-Incorporate Review Feedback

Overview

This step is fairly self-explanatory. After the content review you need to decide which requests should be focused on, what to ignore, and what to act on; make the changes accordingly.

FIG. 45

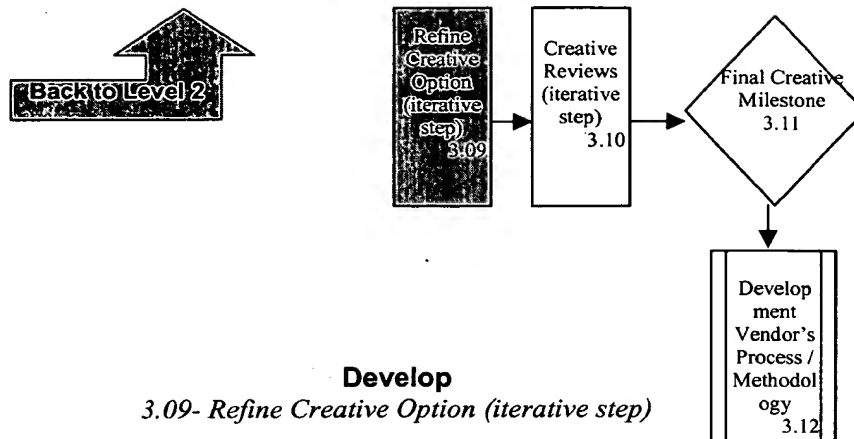


Overview

With the incorporated copy feedback is in place, the last step for the copy resource is to get approval and pass the copy deck to the production resource.

- This milestone should address:
 - Company Legal Sign-off
 - Portal Leader Sign-off
 - Development resource to sign off that the copy deck covers what they need to push forward.
 - Handoff to production to integrate copy and creative
- Go to the Caution step before moving forward.

FIG. 46



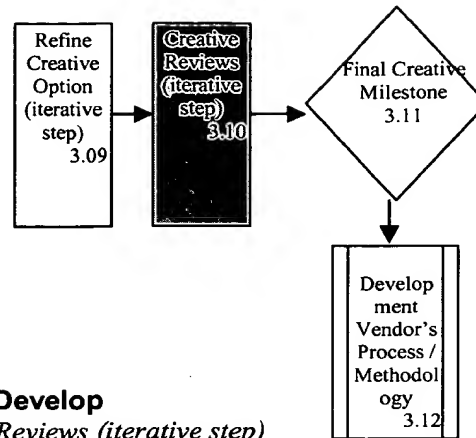
Overview

Previously, the creative vendor created a snapshot of what the creative option would look like for the home page and lower levels pages. Now that Creative is in production they need to continue working on the creative option design to drive it to completion. Once complete, the creative comp will be passed to the production resource for development of the actual web site.

***Refining the Creative Option is an iterative process step. Creative design is a very detail orientated and subjective process that gives way to multiple refinements. To limit the number of iterations there are some proactive steps that can be taken (see step 3.10).**

- In addition, the feedback, ideas, and changes made in steps 2.05 (Selecting the Creative Option) and 2.10 (the All Vendor Meeting) need to be incorporated as the creative option is refined.

FIG. 47



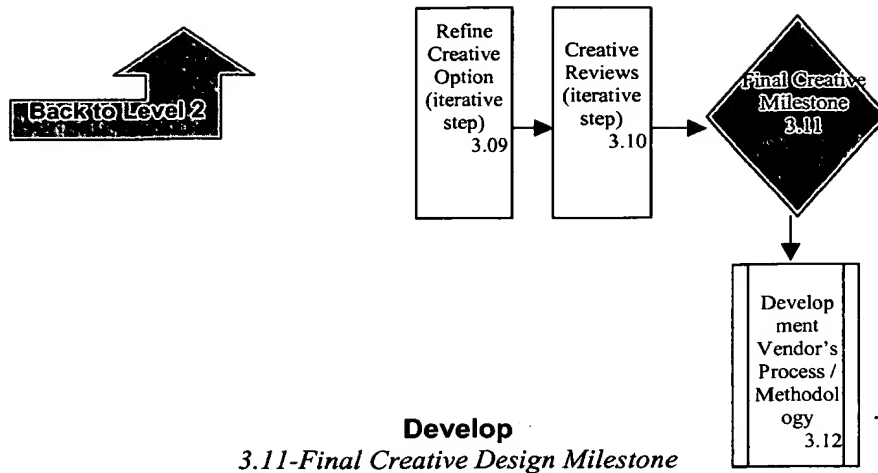
Develop
3.10 Creative Reviews (iterative step)

Overview

As previously mentioned, the process of reviewing and updating the creative option is an iterative step due to the very detailed and subjective nature of creative design. However, below are some ideas on how to proactively limit the number of iterations you face. During this step the site leader should be reviewing the creative option for integrity, satisfaction, and completeness.

- Comprise a list of specifications that you want met in the creative design
 - Start by referring back to your Functional Specifications Document **(1.05)**. Work from here to specify exactly what your requirements and “wants” are with respect to the creative design.
 - ✓ Is the creative design fulfilling your initial requirements?
 - Be sure that your specifications comply with any company web standards
 - Detail the types of fonts, text sizes, and colors to be used; and those not to be used
 - Specify where you want objects and text placed
 - Specify look and feel for any online tools (wizards, calculators, etc)
 - Include the production resource to ensure practicality
- Set an absolute date to lock the requirements

FIG. 48

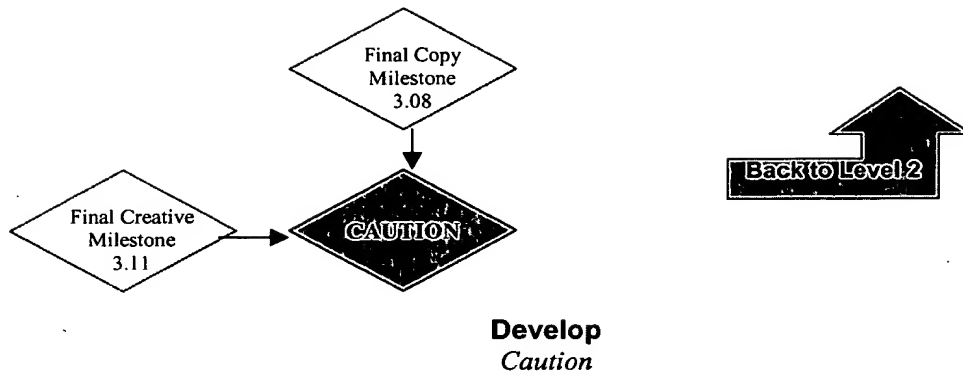


Overview

With the creative option finalized, the last step for the creative resource is to get approval and pass the creative composition to the production resource.

- This milestone should address:
 - Portal Leader approval
 - Development resource to sign off that the creative option is plausible and covers what they need to push forward.
- Handoff to production to integrate copy and creative
- Go to the **Caution** step before moving forward.

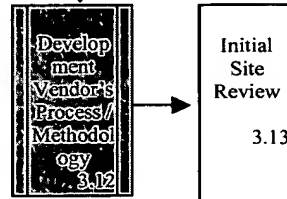
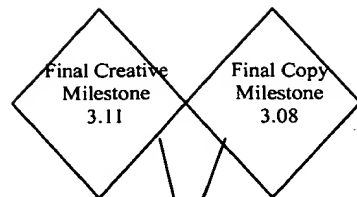
FIG. 49



Overview

At this point your copy, creative option, and development needs should be finalized, and all specifications should be frozen. Any significant modifications will prove to be very costly if done after this point. Remember that the goal of the web development process is to reduce time and cost variation to zero! Beware of scope creep.

FIG. 50



Develop

3.12-Development Vendor's Process / Methodology

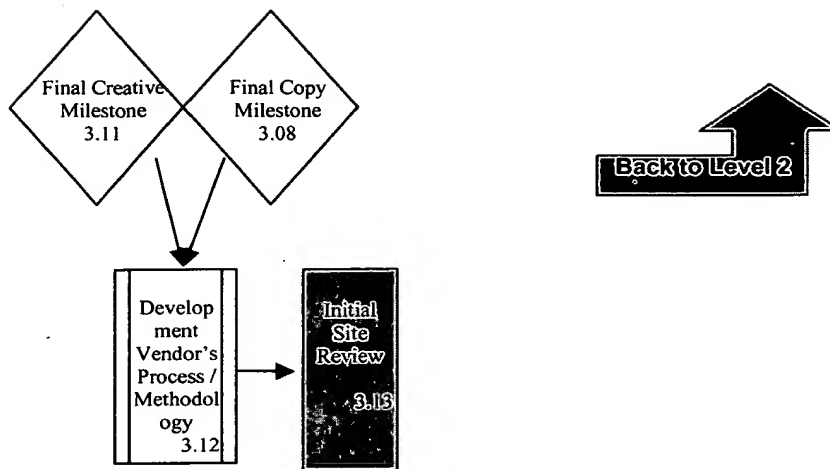
Overview

The Production Resource's Development Process is one of the major steps in the building of your site. At this stage the content has been collected, the copy deck written and approved, the creative template has been finalized, and the technological option has been chosen.

During the vendor selection process it was emphasized to spend extra time analyzing the vendors' development methodologies. This is important because at this point all of the vendors will be submitting their units to the production vendor to integrate them into the web site.

- As you move into production, refer to the guidelines set in step 2.02
 - Set an escalation process for all vendors if issues such as slippage or scope creep arise. Encased
 - Set a change order request process
 - Set a notification process if vendor resources are changed
 - Set Weekly / Semiweekly conference calls and structure (i.e. use the master project plan and determined milestones as checklists during these calls)
 - ✓ Report % Complete vs. Schedule
 - ✓ Report Dollars Spent vs. Budget

FIG. 51a



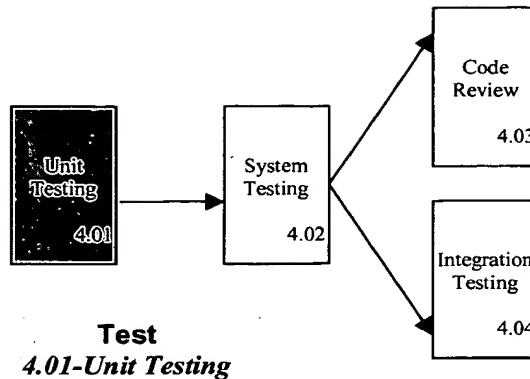
Develop 3.13- Initial Site Review

Overview

Now that the site has been built, the web leader or team can review the beta version. Note that at this stage the site and its components have not gone through testing.

- The basic purpose of this step is to click through the beta site to check it for functionality and completeness. More specifically you should be analyzing:
 - Look and Feel (creative, user experience, flow, etc)
 - Content
 - Navigation
 - Links
 - Online tools (wizards, calculators, etc.)
- Note any improvements and the next steps to refine them.

FIG. 52



Overview

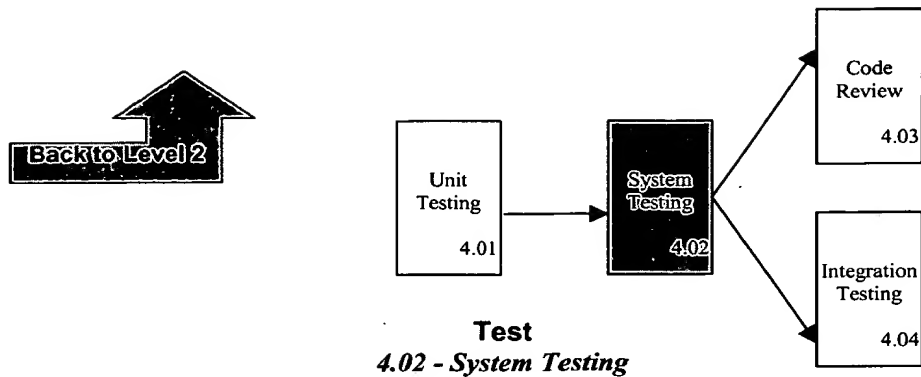
Now that all of the pieces (units) of the site are complete, it is time to test each unit individually. You want to test each unit individually before you test the integrated product to find the bugs that are specific to a unit. *The lead contractor should be accountable for unit testing since they have the responsibility of delivering the final site to company.

- Here is an idea of what units the contractor should be focusing on:

(see step 4.05 for detailed descriptions)

- Look and Feel of the site
- Functionality of the web pages
- Functionality of any online tools used (wizards, calculators, etc)
- External Functionality Testing
 - ✓ Inputs – (i.e. news feed links, etc.)
 - ✓ Outputs – (i.e. metrics reporting tags, database feeds, etc.)
- Customer Contact Vehicle
 - ✓ Email
 - ✓ Voice over chat
 - ✓ Instant Messaging

FIG. 53

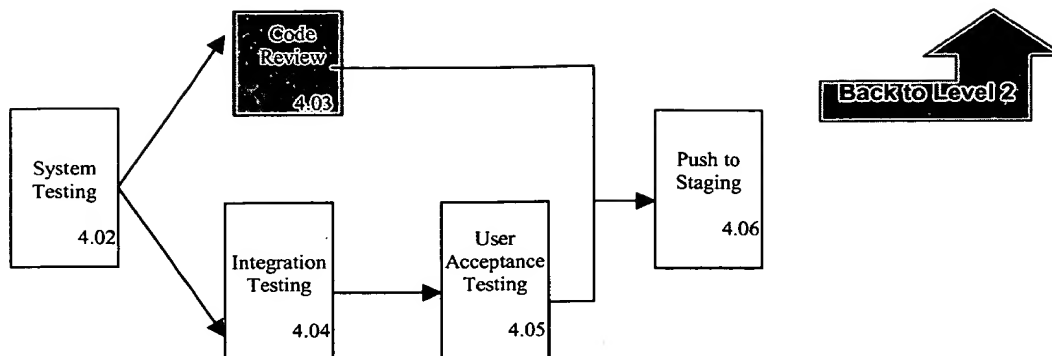


Overview

Once all of the units have been tested in the developer's environment you need to move them to the environment that will eventually house your web site. Each unit properly working in one environment does not ensure that they will work in another environment.

- This step will involve:
 - Your team's technical leader
 - The developer
 - The company hosting contractor (the contractor who hosts your site)
- Depending on how your hardware is configured, you will be moving the units from the production resource's Development Environment to company's Development Environment. Most likely your Development and Production Environments are identical, which is why you want to conduct your system testing in your Development Environment.

FIG. 54



Test

4.03-Code Review

Overview

The code review is basically a security test to ensure that there are not any "holes" or security breeches within the site. This is a mandatory step that company standards require before launch. Here are some points to keep in mind:

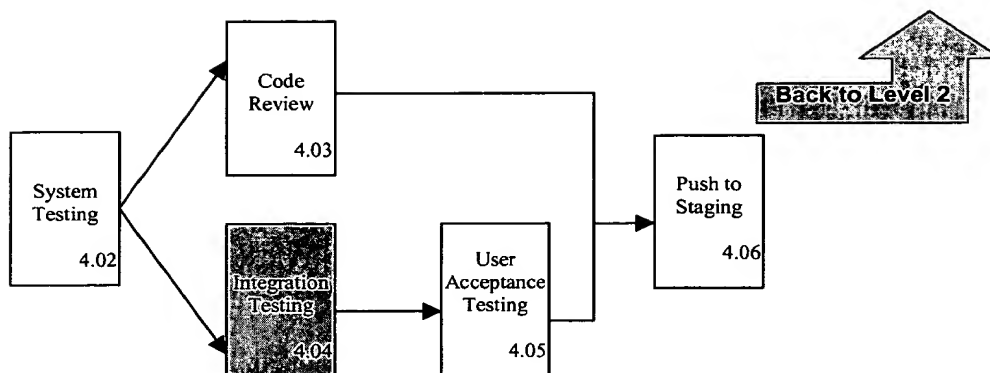
- You should queue the resources for the code review well in advance to take advantage of cost savings, and to be certain that once the site is ready, the code reviewers are too.
 - Your master project plan should give you the necessary information to queue these resources early in the process.
- What exactly needs to be sent to the code review?
 - Refer to company Code Review standards
- There will be multiple code reviews throughout the evolution of your site. Each time you fix or add scripts that have a potential security threat, you will need to have the code reviewed by a certified vendor.

FIG. 55a

- There is also a part of the site code review that should be done by the site leader or team, not an external vendor. Review the HTML for:
 - Meta tagging for search engines
 - ✓ Are the keywords and descriptions complete and correct?
 - Metrics tagging
 - ✓ Check cookies or tags used to track metrics
 - Unnecessary code and/or comments
- Check for unwarranted information or “initials” embedded in your code

FIG. 55b

FIG. 55b



Test

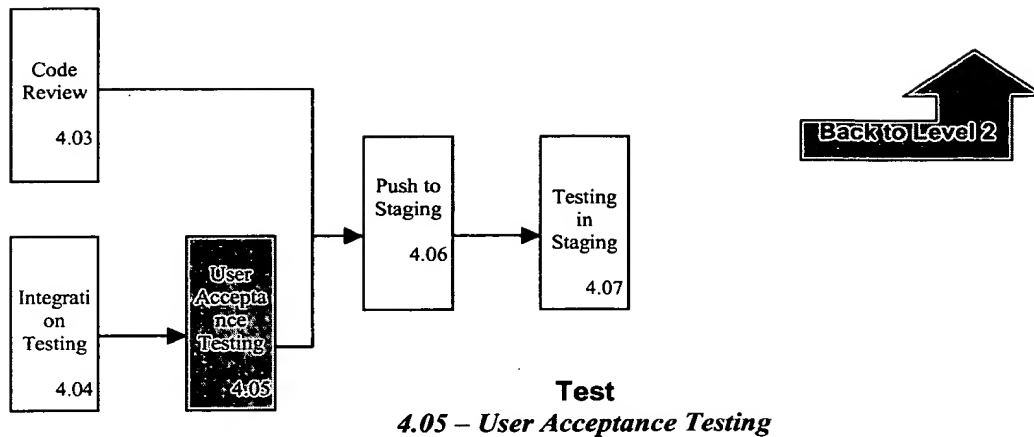
4.04 – Integration Testing

Overview

Now that all of the units have been tested in the Company Environment it is time to integrate the units to test if they work properly together. Ideally, Integration testing should be conducted in company's environment to circumvent similar issues that were found during Systems Testing. *The lead contractor should be accountable for Integration Testing since they have the responsibility of delivering the final site to company.

- As the production resource initiates Integration testing, it is advised that the site owner and team begin testing the site in parallel. You should start testing now so you can get a head start on User Acceptance Testing (**step 4.05**). It is suggested that you simply keep a log of all the errors you find so that they can be presented to the production resource during User Acceptance Testing. You should not contact your vendor with every issue you find since the production resource will find and fix many of these issues during their testing; this will only slow the process.

FIG. 56



Overview

At this point in the process, the vendors have completed Unit Testing, System Testing, and Integration Testing. *As noted during the Vendor Selection Criteria step, it is extremely important that you analyze the vendor's Quality Assurance processes before choosing the resource. Past experience has shown that poor QIA processes lead to rework and missed expectations. Now it is time for the site leader and team to continue testing the site for integrity and completeness. However, this step should not serve as the first complete audit of the site. All major issues should have been dealt with throughout the process since you have the weekly calls and milestones in place. Here are some key aspects to analyze when testing the site:

- Look and Feel Testing
 - Is the site layout and design reflective of the creative option that was chosen and refined?
 - ✓ Are all pages consistent?
 - Have all company standards been met?
 - Is the site performing on various platforms? (Apple, IBM, Netscape, Internet Explorer, etc.)
 - ✓ Does the site cater to the lowest common denominator? Check for company standards.

FIG. 57a

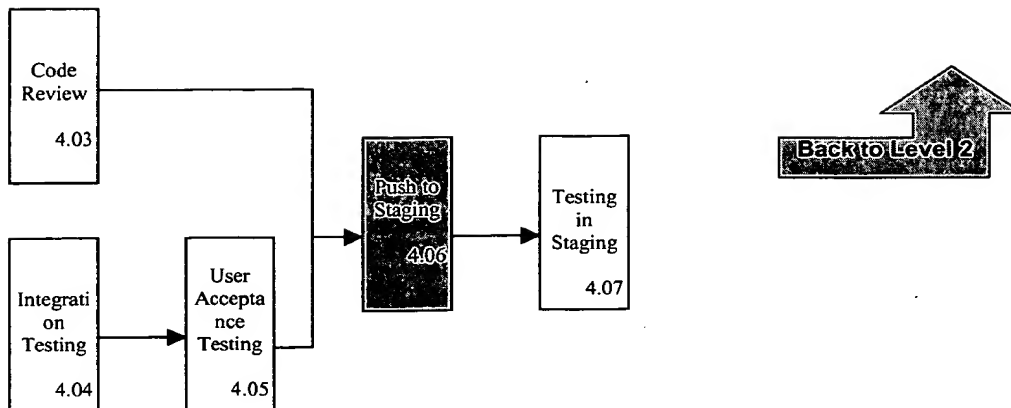
- Link Testing
 - ✓ Are all links (internal and external) working properly?
- Mouse-overs and Alt Tags
 - ✓ Is the correct and complete information being shown?
- Flash, Shock Wave
 - ✓ Are your interactive tools working properly? On various platforms?
- Daughter windows and Pop up windows
 - ✓ Are such windows being spawned where appropriate?
- Navigation testing
 - ✓ Does the navigation match your content hierarchy and site layout?
- Synchronized Content Testing
 - Is all of the synchronized content matching up in the correct place?
- Online Tool Testing (Wizards, Calculators, etc)
 - Basic functionally
 - ✓ Is the unit outcome matching your specifications?
 - Are there any discrepancies with the tool's content, layout or integrity?
- Search Function Testing
 - Is the company search tool working properly for internal searches?
- External Functionality Testing
 - Are all Inputs working properly (i.e. news feed links, alliance links, etc.)
 - Are all outputs working properly (i.e. metrics reporting tags, database feeds, cookies, etc.)
- Customer Contact Vehicle
 - Are your email links working? Are the correct email addresses being used?
 - Are other means of customer contact working? (i.e. voice over chat, instant messaging, etc)

FIG. 57b

- Depending on the time remaining in your project plan, you will be able to address some of the minor bugs or fixes before launch. At this stage of the process no “major” bugs should appear if all of the milestones to date have been satisfied. However, if there are major changes to the site, you have two choices:
 1. Delay the launch and make the necessary changes
 2. Address the major changes post launch

The goal of this process is to launch the site within the set parameters of your budget and project plan. If major issues do arise the decision must be made on a case by case basis. * Once User Acceptance Testing is complete, all parties should sign off on completeness and integrity of the final product.

FIG. 57c



Implementation

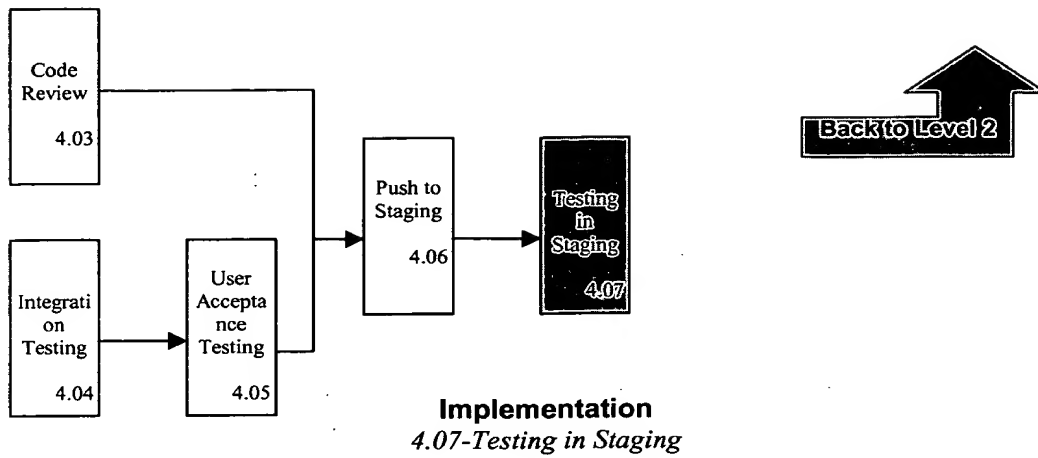
4.06-Push to Staging

Overview

Now that the site has been tested it is time to push the code to your Staging environment. The Staging environment is a replica of the Production (the live) environment. You always should push changes to Staging first, test it, then push to the Production environment. Pushing to the Staging environment gives you the ability to test the site as if it were in Production, without having it available to the public on the Internet.

- To push the code to Staging you need to:
 - Switch the Domain Name System (DNS) to the hosting provider.
 - Developer must have "staging-ready" code prepared and Tared
 - Developer to develop a document for code release. This is basically a list of which files go into the various directories.
 - Web master to FTP code to the web server
 - ✓ Untar files into the appropriate directory

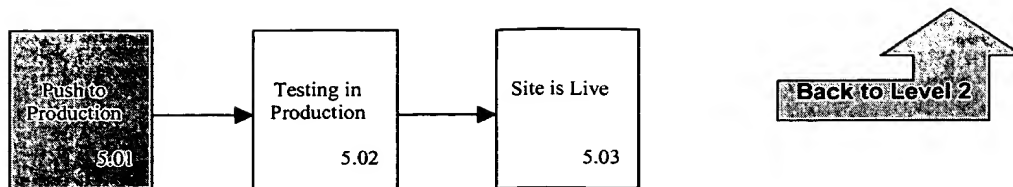
FIG. 58



Overview

The next step is to test the functionality of the site in Staging. At this stage you should not have to retest look and feel, logic, etc.; you need to verify that the site is working properly in this environment. This is the same code that was signed off on during the User Acceptance phase; hence there should be no differences.

FIG. 59



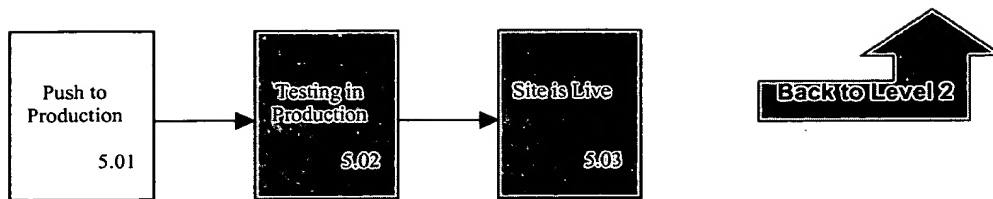
Implementation
5.01-Push to Production

Overview

The next step is to push the code to the production server. Once the code is in Production, the site will be live for the public to view.

- To push the code to Production you need to:
 - Switch the Domain Name System (DNS) to the hosting
 - Developer must have "staging-ready" code prepared and Tared
 - Developer to develop a document for code release. This is basically a list of which files go into the various directories,
 - Web master to FTP code to the web server
- Untar files into the appropriate directory
- Your Site is Live!

FIG. 60



Implementation
5.02-Testing in Production

Overview

The last step of this process is to test the functionality of the site in Production. Again, at this stage you should not have to retest look and feel, logic, etc.; you need to verify that the site is working properly in this environment. This is the same code that was signed off on during the User Acceptance phase; hence there should be no differences.

FIG. 61